```
1 GCGGCGGCTC AGGGAGCTGG AGCCTCAACA GCCTCCAGCG AGCCCGGGAC
   51 CCGCCGACAG CCCGAGAAAC CAGCCGAAGG ACGCGGGGCG GGGTCGCCGC
  101 CGCCGCCACG GGGTGCTCCC TCCCTCCCGC CCAAGTCCGG CCACCTGGTC
  151 TTCCCCTCGG CCCCGGCCGT CTCAGACTCA TCAAAATGAA ACCAGGAGGC
  201 TTTTGGCTGC ATCTCACACT GCTCGGAGCC TCCCTGCCGG CTGCGCTGGG
  251 ATGGATGGAC CCAGGAACCA GCAGAGGCCC GGATGTGGGT GTGGGGGAGT
  301 CACAGGCAGA GGAGCCCAGA AGCTTTGAAG TCACAAGAAG AGAAGGGCTT
  351 TCCAGCCACA ACGAGCTGCT GGCCTCCTGC GGGAAGAAGT TCTGCAGCCG
  401 AGGGAGCCGG TGCGTGCTCA GCAGGAAGAC AGGGGAGCCC GAATGCCAGT
  451 GCCTGGAGGC ATGCAGGCCC AGCTACGTGC CTGTGTGCGG CTCTGATGGG
  501 AGGTTTTATG AAAACCACTG TAAGCTCCAC CGTGCTGCTT GCCTCCTGGG
  551 AAAGAGGATC ACCGTCATCC ACAGCAAGGA CTGTTTCCTC AAAGGTGACA
  601 CGTGCACCAT GGCCGGCTAC GCCCGCTTGA AGAATGTCCT TCTGGCACTC
  651 CAGACCCGTC TGCAGCCACT CCAAGAAGGA GACAGCAGAC AAGACCCTGC
  701 CTCCCAGAAG CGCCTCCTGG TGGAATCTCT GTTCAGGGAC TTAGATGCAG
  751 ATGGCAATGG CCACCTCAGC AGCTCCGAAC TGGCTCAGCA TGTGCTGAAG
  801 AAGCAGGACC TGGATGAAGA CTTACTTGGT TGCTCACCAG GTGACCTCCT
  851 CCGATTTGAC GATTACAACA GTGACAGCTC CCTGACCCTC CGCGAGTTCT
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  951 AAAGCCACAG GACTGAGCCA ACAAGGAGAG AAGCAATCAG GACTTTGTCA
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 1201 ATTTTTGAAA TGCTAATACA CGCTCTCCGC AACTTAATTT TATTTTTTTC
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 1401 CCTGGGATCA ATGTTCATTC TCAATACATC ATTAAAGCAT CCTGTTAAAT
 FEATURES:
5'UTR:
            1-185
Start Codon: 186
Stop Codon: 924
Homologous proteins:
Top BLAST Hits:
                                                                Score
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CRA|335001101606043 /dataset=GENESEQ /org=Homo sapiens /taxon=9...
CRA|335001101606039 /dataset=GENESEQ /org=Homo sapiens /taxon=9...
CRA|335001101547741 /dataset=GENESEQ /org=Homo sapiens /taxon=9...
                                                                  199 5e-51
CRA|335001101547741 /dataset=GENESEQ /org=Homo sapiens /taxon=9...
BLAST hits to dbEST:
                                                                Score
                                                                         Ε
CRA|1000479221223 /altid=gi|3644849 /dataset=dbest /taxon=9606 ...
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                                                                       0.0
CRA|157000140836445 /altid=gi|13450375 /dataset=dbest /taxon=96...
                                                                  737
                                                                      0.0
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CRA|61000077321890 /altid=gi|14464587 /dataset=dbest /taxon=960...
CRA|61000077326375 /altid=gi|14464972 /dataset=dbest /taxon=960... 599 e-168
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CRA|335001100819886 /altid=gi|11685581 /dataset=dbest /taxon=96... 100 3e-18

## EXPRESSION INFORMATION:

Tissue source of BLAST dbEST hits: gi|3644849 Soares\_testis\_NHT

Tissue source of cDNA clone:
whole brain

- 1 MKPGGFWLHL TLLGASLPAA LGWMDPGTSR GPDVGVGESQ AEEPRSFEVT 51 RREGLSSHNE LLASCGKKFC SRGSRCVLSR KTGEPECQCL EACRPSYVPV 101 CGSDGRFYEN HCKLHRAACL LGKRITVIHS KDCFLKGDTC TMAGYARLKN 151 VLLALQTRLQ PLQEGDSRQD PASQKRLLVE SLFRDLDADG NGHLSSSELA 201 QHVLKKQDLD EDLLGCSPGD LLRFDDYNSD SSLTLREFYM AFRQKC (SEQ ID NO:2)
- FEATURES:

## Functional domains and key regions:

Prosite results:

PDOC00004 PS00004 CAMP PHOSPHO SITE

cAMP- and cGMP-dependent protein kinase phosphorylation site KRIT

123-126

PDOC00005 PS00005 PKC\_PHOSPHO SITE

Protein kinase C phosphorylation site

Number of matches: 5

1 28-30 2 50-52 TRR 3 79-81 SRK 173-175 SQK 234-236 TLR

PDOC00006 PS00006 CK2 PHOSPHO SITE

Casein kinase II phosphorylation site

Number of matches: 7

1 39-42 SQAE 2 50-53 TRRE 3 57-60 SHNE 4 167-170 SRQD 5 195-198 SSSE 6 217-220 SPGD 7 234-237 TLRE

PDOC00008 PS00008 MYRISTYL

N-myristoylation site

Number of matches: 2

1 35-40 **GVGESO** 215-220 GCSPGD

PDOC00009 PS00009 AMIDATION

Amidation site

Number of matches: 2

1 65-68 CGKK

121-124 LGKR

PDOC00018 PS00018 EF HAND

EF-hand calcium-binding domain

DADGNGHLSSSEL

## Membrane spanning structure and domains:

Helix	Begin	End	Score	Certainty
1	4			Certain

PF00243

PF00050

PF00036

1/1

1/1

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BLAST Alignment to Top Hit:
>CRA|335001101606041 /dataset=GENESEQ /org=Homo sapiens /taxon=9606
           /mol type=aa /date=19-FEB-01 /length=842
           /altid=derwent ac|AAB19727 /altid=derwent id|AAB19727
           /def=Human SECX Clone 4324229-2 encoded protein
           /patent=WO200061754-A2 /pat_section=Claim
          Length = 842
 Score = 507 bits (1292), Expect = e-144
 Identities = 242/243 (99%), Positives = 243/243 (99%)
           MKPGGFWLHLTLLGASLPAALGWMDPGTSRGPDVGVGESQAEEPRSFEVTRREGLSSHNE 60
Query: 1
           MKPGGFWLHLTLLGASLPAALGWMDPGTSRGPDVGVGESQAEEPRSFEVTRREGLSSHNE
Sbjct: 1
           MKPGGFWLHLTLLGASLPAALGWMDPGTSRGPDVGVGESQAEEPRSFEVTRREGLSSHNE 60
Query: 61 LLASCGKKFCSRGSRCVLSRKTGEPECQCLEACRPSYVPVCGSDGRFYENHCKLHRAACL 120
           \verb|LLASCGKKFCSRGSRCVLSRKTGEPECQCLEACRPSYVPVCGSDGRFYENHCKLHRAACL|
Sbjct: 61 LLASCGKKFCSRGSRCVLSRKTGEPECQCLEACRPSYVPVCGSDGRFYENHCKLHRAACL 120
Query: 121 LGKRITVIHSKDCFLKGDTCTMAGYARLKNVLLALQTRLQPLQEGDSRQDPASQKRLLVE 180
           LGKRITVIHSKDCFLKGDTCTMAGYARLKNVLLALQTRLQPLQEGDSRQDPASQKRLLVE
Sbjct: 121 LGKRITVIHSKDCFLKGDTCTMAGYARLKNVLLALQTRLQPLQEGDSRQDPASQKRLLVE 180
Query: 181 SLFRDLDADGNGHLSSSELAQHVLKKQDLDEDLLGCSPGDLLRFDDYNSDSSLTLREFYM 240
           {\tt SLFRDLDADGNGHLSSSELAQHVLKKQDLDEDLLGCSPGDLLRFDDYNSDSSLTLREFYM}
Sbjct: 181 SLFRDLDADGNGHLSSSELAQHVLKKQDLDEDLLGCSPGDLLRFDDYNSDSSLTLREFYM 240
Query: 241 AFR 243
           AF+
Sbjct: 241 AFQ 243 (SEQ ID NO:4)
Hmmer search results (Pfam):
Scores for sequence family classification (score includes all domains):
         Description
                                                        Score
                                                                 E-value N
PF00050 Kazal-type serine protease inhibitor domain
                                                         42.2
                                                                  4.7e-09
                                                                           1
PF00036 EF hand
                                                         11.6
                                                                     0.2
                                                                           1
PF00243 Nerve growth factor family
                                                                     4.9
                                                          4.0
Parsed for domains:
Model
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Domain seq-f seq-t hmm-f hmm-t

89

178

1/1 76 85 .. 109 118 .]

133 ..

199 ..

## FIGURE 2, page 2 of 2

61 []

22 [.

1

1

score E-value

42.2 4.7e-09

4.9

4.0

11.6

1 TCATTCCGAG GTGACTTTTA ATTTCACTCT TATTTTATGC ACAGTAGTTA 51 AACAGCTCAC TTCAGATGTT AGCATTCTCT CTAAGGAATA TTCCATACAT 101 CTGGTTTGCA GCAACTACCT TCTTCTCCTT CTTTGGGAAG CGTGTAGAAG 151 TTCAGTGCCT GTTCACTGCA TTAAACAGAG CTATTTCTGA TCTTGGTCAA 201 CCTATAGACC CTGATTTACA TATGACCTTG AGTTACTAAA AAACAAAAAA 251 TACACAAAGT CCTGCTTTGA TTATGTAATA AGGCCACTAG GCTGACTCAG 301 GGACTTTGTG ATCAGAGCTG AGAATAGAAA TCTGCTTTTC CAAATACCTC 351 ATGTCTTAGA GGAGAGCCGA ATCCAGCCTC TAAGCCATGG TGTACGTTCC 401 TGACCACAGA CTTAGAATTA CATTTCAGAG GGAGGCACAG CACATTTCCA 451 AACTTCCCTG CTTCCTTTTA TACTCATTTT CTCTTTTCTG TTTCCCAAGA 501 TGAAAAGTGC CATCCCTTCC CCAGTCCTGC CATGGAGAAT CTGGCCCCTA 551 GCCAGCCCCA GAAGTTCAGT CATGGTGGCC TTGGCAAAGA TTCATAGTCA 601 AATCTGAGAG AGGATCACAC TGGCTAGGGC CCAGGGTCAC TGAGGATGTA 651 GTAGCCTTTA TCCTTCTGAG TAAAAATCAT GGTATCCACA TGGGAAGTCA 701 ACCAGGTTTT GTCCAACCCC TCATTTTACA AGTGGGGAAA CTGATACCTA 751 CAGTAGAGAT ACGATTGGCT CTGCATTACA TAGCTTGGCA GTGATAGAGG 801 GAGAGCTGGA CCCCAGACCA AAACTGTGTG ATGCCAAGAC CGCGCTGGCC 851 CATTCACTGC TGTATCTCTA GCAACTATTA ATAGCACAGT GCCTGCTGCA 901 TTGGAGGGGT TCAGCGGCAG GAAAATCTGT GGAAGGAAAA AACAAACGTA 951 ATATCTCTTT CTTCAGGTCA GCCTTCCATT ATTCTTCCCC TTTTCCTTAT 1001 ATTTAACTAA CTTCATCCTC AGAAAAATCC CCTCTGTCAC CTCCCCCGG 1051 CCAGGAGAGA TTACAGAGGC ATGGACAGAA CACTGTTCAC CTAAGCCAGG 1101 AAGGCCCCTG GTGCCCACGC AGCCAGAGCA GGAGGCAGGC CCTCAGAAAG 1151 TCTCCTGGCC ATCAGCCTGG CCTGGGTAGG GGCTCCCTCC TAAGTTTCCT 1201 GCCAGACTGA GGCTACGTAT GACCATTTAT GGGCCCCTAG TTGTTACAAA 1251 GGTGTTTCCA GTTCATTCGG GAAGGAAGAC TGATCTCAAA AGCTGCTGAT 1301 GTTAAAGAGG GATTCAGAAA AGTTTGGGAG CCCCAGGCTT GGGGATGGGA 1351 TCAGGATGGG GAAATATCCT GTTCTAAGGG AGAAGGGACC CTCTGGGCCC 1401 AGCTAGGTCA GGTAGGCAAA TGTCACTTGG GATTGCCCCT GTATGCCCTG 1451 AATGTCTTAA GATTCTGTAG TTGGAAGAGG GAAGATTCAG AAAAGAGAAA 1501 ACCTTTGCTG TTTCCCAGGT TGTTGGGTCT CAACGGCGGG GGATTTCACC 1551 CACTTTGTCC CCAGGGACAG CTCTCCTGCT GTGGTGTACC GGCCCGCCTG 1601 GACTCCACGA GCAATGGCCG CGGATTCAGA GACCCCCTGT GCGCCTGGAG 1651 AGCACAGCTT TGGGGAACCT GGCCCGGAAA GGAGCCTGGA GGAGAGCAGA 1701 GGTGAAGAGG GGCTGTCACT TGCCGAGCTC CACGCTAGCC AGAGGCAGGA 1751 GCGCTACGCT GGCCCTCCTC CCTCCGGGCC CTAGATGGCC CCAGCGCTCC 1801 CGAGTCATCG CGCCCCGCGT GCGCGCCCGC CTGCTCCGCG CACCTGCCGT 1851 GGCCGCCGCG CGGGTCTGAC CGGCTGGCGG GCGGGCGGCG CGCACAGGTG 1901 GCGGCGATTG GGCAGGCGGG GCCCAGAGGG TGACGTCACG GGCTCCGGTC 1951 CCGGCGGCAG AAATAGGGCA GCCGCGGCGG CGGTGGCACA GCAGCGGGCA 2001 GCGGCGGCTC AGGGAGCTGG AGCCTCAACA GCCTCCAGCG AGCCCGGGAC 2051 CCGCCGACAG CCCGAGAAAC CAGCCGAAGG ACGCGGGGCG GGGTCGCCGC 2101 CGCCGCCACG GGGTGCTCCC TCCCTCCCGC CCAAGTCCGG CCACCTGGTC 2151 TTCCCCTCGG CCCCGGCCGT CTCAGGTACG CGGGCGCAGC TCCCAGCGGG 2201 CGCGGGGAGG GTGCCATGTC GCTGGCGCCG CCACCAGCCG GTCCCGCTGC 2251 ACCCCACTGG GGTCCTGGCG CCCGCGGCCC CGCATCTTGC TGCAGGGCCC 2301 GGCGCGGGCG CTTGCTTGTC CTTACTGCCC GCGCCGGGAA AGCCAAGTTT 2351 GCCCGCGGG AAGGGACCGC TGGGCCAGGG CTCGGCAGGG CTACCCCGGC 2401 CAAGGCCAGG ACTCGAGGAG AGGCTGGGAC GCCGAGGCTC GTGGCCGGGG 2451 TCTACGGTGG GGACCGGAGT GACCCGGTTG GCACGCGGGG CGCCACGCAG 2501 AAGCGCTCGG GCCGAGCCCG CAGCTCGCGC CCGGCTCCGA AATCCTGCAG 2551 GCGCCGTTCT TGGGTTCAGG ACCCCGAGCG GCCCCGGCGG AGCCAGGCGA 2601 GCGCGGCCCC TCGGCCCGGG CCCGGTGCCC TTGGCTCCGG GTTGGGGCGC 2651 CGGGCAGGCA TTCTCAGCAC CTCCTCCCCG CGGCTTTGCG GGGAAACTTG 2701 CGTCTCCTCG CTGCAGCCCA AAGGGCCCGC TGCGCTTCGC CTGGCCCTGG 2751 CTTCCCCGGG GTCCGCCGCA TGTGAGGCTG GGGAGGAAGG AATCAGGGCA 2801 CGACCCGACT CCAGGCAGCC TGCGGCGCTG CTTGTGCGTA GCCGGCCGCG 2851 GTCCAGAGTG AGCGGCCCGG GGTACCCGCT TGAACGTGTC TAGGGAGCAG 2901 TGTGTTGGGG GCGTTCAGCG TTCGGGCTGG GGGCTTGGTC CTAAGAGAGC 2951 TTGCACTGTG GATGATCTCC GCCCTCTTTG CGCCCGCAAA ACAAAGACGA 3001 GTTCTGAGTT TCAGGAGGGA CCTGGACGAG GCAGGCACAG CACTCTGCTT 3051 TCGGCGCCTG TCGCCTCGAG TTTGGGGACG AGCTGACGCT AGTCTTTGGG 3101 GCTCCCTGCA GCCGACAAAG CGGCGCCAAC CCCAGGCCTG CCACCTGAGG

3151 ACTTTGTGCC CGCAACTCTT GCGGGAGCGG AAAGCCGCCG AGGCAGTGGG 3201 GTTTCTTGTT TTCCAGAGCG CGGCGAGCCT CCGCGCGGCG CGGCAAGTGC 3251 ACTAGGAGTG CGCGGGTCAG CGGGGCGGGC CCGGCGAGGT CGGTGTCGCG 3301 GCTCGAGAGC GGGTGCCGGG GCGCTGTCCA GCAGCCCTCG CTCGCGGCCG 3351 CGGGCCGCCG ACACTGATGA ATGGCGCGGC CACAGCCCGC CGCTCCCCTC 3401 TAGGTGTCGC TTCCGCCGAG CTTTCCTCCA GTGAAAAACA GCGCCGGCAG 3451 CTTGGTCTGT TACCTTCGTA AATTTGTTGC AAGCCTGTGC ACCAGGAATT 3501 GTACTAGATG GGGCCCCCGA GATACAAACA TCCGTCCAGG TTCTCTGGGC 3551 CAAACGTAAA CAGAATTTCA ATAGGTGGTG AAGTAACTGC CAGCCAAAAT 3601 GTTCACCGGG AATGGGCCTG TGTCACAATC TGTGAGGGGA AAAGACGGAT 3651 CAGTGAGCGA CTAGGACTCT TCTTGAAAGT CCTAAGTTAT TTTCCTACTG 3701 CCAAATTTAG GGGAAACCAG CGATGCTTTT TAATAGTGTC TTCTTAATCC 3751 TGGGAGCCAG GCGCCAGTTT CTGTGCCTGC CCCTCTGGCC CCCAGGACAG 3801 ACTCTGGGTC TGGTTGGCGG GGGGTCCACC TGGGAAGGGA ATGGTCGGAG 3851 GTGTGAGTGA TGCAGCTTCT GAGACTCCAG AGCCACAGCA ACTCTCAGGC 3901 AGGAGCTCAA GCCGGACATA CGAGCAGATG CCCTACAGGG CACGTGTCTG 3951 CTTCCCATCT TAGCGTTGTG AGAAGGAGGC ACTGCAGCAT CACTAGACCA 4001 TTTCTGCCAT ACTCTGCTAA ATGTTCGCTT TTTCCCTCCC ATCCTAGGAA 4051 AAAAAGGCAC CACCCTCTCC AAAGACTTCA GACTGAGCCA AAGTTCACAT 4101 AAGAAAATAG TCCACTTTGA TGTAATGTAT TTAAATTGCT CGTTAGAGTT 4151 GTCCTAGTGC TTTTTTCTCT CTTAGACTTT TATGATCATC CTCAATTTTT 4201 GTTGATTCTA GGAAAGCTCT TTTTCTTCTG GAAAAGGCCA GCTTGTTTTT 4251 CTGGGTATTA GGAGAACTTT TATCCTTTCG GCTGTGCCCT GGAGGTGGGT 4301 GAGGGAAGAG GAGGTTGGAT TTTTCCACCA TGACCAGTCA GTCACTGAGG 4351 ACTTTTTTC CTTTTACTAA GGGCCGTAGG ACTTTTTAAA TGTGACCTTC 4401 ACGTTATGAT CTTTTGTTTG ACTTAACACT ATATTCAGAG ACTAGCATTG 4451 AATAGTCATT GTTTCATAAA ACTACCTTAA CTCCTACCTT GCCTTGTTTG 4501 AGTGTTTCTC TGCAAACTCA ACCTTCTTGA GTTGCTTATG TGCGGTTAGT 4551 TGTGTGCTTC CTAGCTTAAT GCAATTAGAT ATTTCAAGAG CACATCTTTC 4601 TTTACATTTT CTGTCTCAAT GCATAACATA AGGCATGGAA TTTCCAATAA 4651 AATAGAACTG CAATCAAGAG CATGTGGTTC TTAAGAGGTA TGAGCTGAAG 4701 GTTGTAAGGA TAAAGGTTAT TGGAAGTCAC ATGTGTGTCT GTGTTAAACG 4751 TCAGAGTAAA TAGGAATAGA GATTTATACA TGGCACATAG AATAATGTAG 4801 CCATCTAATT TATCAAGTGT TGGGGAAGAA TTAACTAATG ATATAGAGTA 4851 GATAATTAAT AGGAAATGCA ATTTAACTTC ATTAGGGCTT GCTGCAACGT 4901 TAGCTTGCTA TATCTCCATG CCTAATTTCC CTGGGTTGGT GTTTTAGGGA 4951 CTGTCTTAGG AAATCTGTAC CACTTTCTTT TTTTCTAAAA CACTCACATA 5001 TCAAAACTAG GGTCGTAAGC CTTTGAGAGG TTCCCGTACA GCCTCCTGGT 5051 TTCACGCTGG GGTTGATGTG GCTTTTTTTC CCCCTTTAAA TTTGAGCAGA 5101 CATGCAGAAG AGAATTCCAC GTTGTATTCA GTCAGTATTT GGAATTCCAG 5151 AATCCCAGTT GATTTTTATA TGTTGATTGC CAACATGCCA TGTATGAAAT 5201 GCTACACACC TACAGTGTGT GTAGGGCAGA CACTTTTTCA TTTGGAAAGG 5251 TTGAGAATGC AGATGCTTCA GGGTCACAAA TCTGACTGTT CTCTTCAAGG 5301 CTGGGTGGCA TTGCTTGGTT CTGCCAAATC ATCTTTGTAA TTTCTGGTCC 5351 TGTTGATTAC AAAAAGAAGC CATTTCTGTA TGGCTAATCC TTAATGGCTA 5401 GTCTGGTAAA GTTACCAAGT TCTGGGAGAG AGGCTGAGAG AGAGAATGGA 5451 TGAACAATGC CACCGAAACT CTGAGGGCCA GAATTCCCAT TCTTCCCAAC 5501 AGGGCTGTTT CCTGGAATAG AAAGAGAAGT TTGTATTAAA CCCATTGCCA 5551 GTTTAATGGG ATTGCTTCTC TCTGGCCTAT GAACTTGGTC AATAAAGACA 5601 GCTTACATGC CTGTGTGCGT TCTCTGGGTG GGGCAGATTT TGGTATTTTC 5651 ATATGAATAC CTATTTCTCC CTAACAATTT GCATTCCTAT TTCATGCTTT 5701 TTCAGCTTTC TTCAAAAAGC AAGTCAGTAT TTGGAATGTT ACATCATACT 5751 AACCTGTAAT ACCTCTGTAA TTCTAAATAC AGATAAATAA TAGCACAGAT 5801 ATTAGCTTAT TTTAGAACAC CTGAAAATCC TGTGGTTTTC ACAAGGAGGT 5851 AGACAATCTA GTGGAGGTCC TTCAGCATTG AGAAAAGCAA AATCTGCCTA 5901 TCTAAACAAA GAATCCAAAC TCCCACTCTA GATGTAAGTG TGCCATAATA 5951 TAAGGAACCA AACAGTTGCC CTGGGGGCAG GATGCCTGGG TTCCAGTTTA 6001 GGCCTAGCCA CTGATTTGTC CTTGAACCTG GGTGGATTCG TCCACCTTCT 6051 GGTCTTCTGG TGTCCTATCT ATGCGGCAGC CAGGTTAGCA CCAGGTTCTC 6101 CTGACTGGGG GAATGTCTGT TGAAGCTCTG GTAGGAAACC ACAGGGGAAG 6151 CAATGAAACA CCTCCCTTCC AAACAAGATG GTTAAAGCAT CAAGTCAGTG 6201 TACTTTATGA CTTGTTTGGA ACAAAAGGTA GTCTCAGCTC TTTATATGGG 6251 GACAGTCCTA GGTAGATTTA TAATTAATAC TTAGGGCTTA GCAAGGATTG

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6951 CCACTTGTCT GCCACATGGC CTTGGCAGAG TCCTTAACCT CTCTGTGACC
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7201 TCCTTTTTAT GAACTGAACT GTCATAAAAC TTGAGCTGTA AATTTCCAGG
7251 CTGTTGGTGC TGTAGATATA ATGAATTGTC AATCACCGTT AAGTATAAAA
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7551 GAAACCAGCA GTCTTGGTGC ATCCTCTTAT GAACTGATTT GGCGCTTGCC
7601 AAAATCACAG TTGAAATGAA TATATTTTAT TTTAATGCTA CCCATTAGTA
7651 CCAAAACATA AAACATAATT GATCTTAGAT TACAAAGCAG ATTAAAAGTT
7701 AAATACCAGA TTTTGTGGCT TATGTATTTC ATAACTCCAA GAGTTGACAT
7751 CTGTACATTA ACTAGAATAG ATTTGGATTA TCTTGCTGTT TTTCGTTTAT
7801 GTGAGCTAGG AGACATGGAA AGGGAGAAAA GTAGACCTTG CTCTGTGTGT
7851 TTACTCTGTG AGCAATGTTT GATAGTAGAT AAGTAGGACA AAATTAATGA
7901 GAATAAGAAG CAATGTCTTT CTAGTTCTAG CTTAAATTTC TATGGCTGGT
7951 TTTTAAAAAT TCCAAAAATC CACTCGCTGT TTTCTGCAGT CTCTGGAAAG
8001 TGGCTCTGCA TTCAGAAGAG GATTACTTAT GGAGAATAGG GAGTTACCTT
8051 GTTTATTTTT AGAAAAATGG GTTGCAGCTC AGCTGGGCAT GGTGGCTCAT
8101 TCCTATAATA CCAGCACTTT GGGAGGCCGA AGCAGGTGGA TCACCTGAGG
8151 TTGGGAGTTC GAGACCAGCC TGACCAACAT GGAGAAACCC TGTCTCTATT
8201 AAAAATACAA AATTAGCTGG GCATGGTGGC GCATGCCTGT CATCCCAGCT
8251 ACTCGGGAGG CTGAGGCAGG AGAATCACTT GAACCCAGGA GGCGGAGGTT
8301 GCAGTGAGCC GAGATCGCAC CATTGAACTC CAGCGCAGGC TACAAGAGTG
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8501 CCATTGGGGG GCAGGGGAGG GAGTGCCGTG ACTGCCGCAG TCCTCACAGT
8551 CCTCTCCCGG GTGGCAGCTG AAGCGGCATT ATTCCACTCA ACTCTGCCTT
8601 CTTCAGAGTG TGGGGCAGGT GCTGATGGTG AGACTGTGAC CTTCAGATTA
8651 TATTTACTGA CCACCCAGAC TCTTTTCCTG GTAGCTCAGC TTTGTCAACA
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8851 TCTGACTTCT CCTCCCTGTG GGCATTTCTG TCTCCAGCTG GAGACATAAA
8901 GCAGATGTGG AGAGGCAGCT CTATTTGGAT GTGGATAGCA GCCAAACAAA
8951 ACCTGGAATG TGGCAGGAGT GTAATTGTTT GCCAGCCCTG GACTCAGCAC
9001 TAGTGACTAT GTGACAACTT CCACCCCATT GTCTAAAGTA GGGATGCTCC
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9151 AGTTCATGCT GGATGCTGGC CTCCAAGGAG CTCCGGTGTC TTTAACTCAC
9201 CAGCCTAGAT CAGGATGCAG TGTGGACCAT ATGTGATTAA GCACTAAATT
9251 GTGTGGTACA AGCAGAAATC AATAACCCCT AAAGTTTCCT TGAGTAGGGG
9301 TTCTAAGTAC TACATAATGA GTTGTATCTG GTTATGTTTC ATAATCAGAA
9351 TACTGAAATT ATGGTTGGAC TGTGTTCACA GTGGAAAACT TTTTCCAAAA
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25201	NNNNNNNNNN	NNNNNNNNN	NNNNNNNNNN	NNNNNNNNN	NNNNNNNNN
25251	NNNNNNNNN	NNNNNNNNNN	NNNNNNNNN	CTTAAGGAGG	AGGTAAGATT
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25651			TGAGTGAGGA		
25701			GACATACAGG		
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25801	GGAACAAATG	AGCCAATGGG	CAGCCCCAAA	GGCTGAGAGA	AAGTCATGGG
25851			AAGAAGAGGT		
25901			GGTTGACACT		
25951					
			TGTTGCCTAC		
26001		CACTCCAGAG	TCTCAGAAAC	AATGATGAGC	ACTTCTTTCA
26051	GGCTGGGTGC	TATGCTGATT	GCTGGGGGCA	CAACCAGGAT	GCTGTTTGTG
26101	GGTGGAAATT	GGCAAGTGGA	CAGCAGCTAC	CACATACTCA	CTCCTCTTTC
	CCCTCCTCTC				
			CTGCAGTCTC		
	TTTTGCAGAT		AAGCTCCTGG	AGGTTAATGC	CATGTATATG
	GTGACCCAGT	GCCGGGGGTC			TTGTGTCTCG
26301	TGCACTGCAA	GCCCAGTGGC	CCCATTCTCC	ATGTCACCGG	GAGGCTTCTC
26351	AGTCCTGGCT	CCTTCACCCT	A CTCTTCCCA	CCTCCATCCA	CECACEECEC
26401	GATACTGAGC	TCCCATCCCT	CCECTECCA	CCIGCAICCA	GIGAGIICIG
			CCTCATGGAA		
	AGCCATCCTC	TGGCTCCACT	GACTTGCTGG	GAAGAGAAAC	TGGCACCACT
26501	GTTTACATTA	GTTTCTGTGC	CTGTGACACC	CAGCTGATAC	CCTCTGTTAC
26551	GAAGGGACAC	CCTTCCCCAT	ATGTGGGAGT	AACAGGGCAC	CCTCATTGGA
26601	GAACCCTGCC	AGCCCACTGG	CACCTGCAGA	GGTTTGTCTC	AGGCAGCTGC
26651	GCACCATGGT	CCACACCACT	CCCCACCCCC	ACTICICIO	OD COURTS A
26701	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	GCAGAGCACI	GGCCAGGCCC	ACTGGGGGAA	GAGTTTGTAA
	GGTGTTAAGA				
26751		GGGGTGGCTT	CAAAAAATGC	TGATGCCTGT	GTCCCACCCC
26801	CAGAGATTGT	GATTTAATTG	GTTTAGGGTA	TGGCCTATAC	TCTGGATTAT
26851	TTAAATGTCC		ACTGCTGGGT		
26901	GGCAAAATGC	CCACTTCTCT	CCTCATTCTC	TINGCOLATOA	COMPONE
26951	DELEMENTOR	CCACTICIGI	CCICATIGIC	TTTCTCAGCA	CCTACTCCTC
		ACTGATTCAG	GCTGCAGGGG	ACAAAGCTTC	CCTGTGCCTT
27001	TGCCCAGGCA	CAAGGCCCCT	CCTGGGAGGT	GTGGGTGGCT	AAGGCTGGCG
27051	TGATTCCTGA	TGTGGCACGT	GTGGGGCAGG	TATTTCTCTA	CTTGAGGAGT
27101	GACATTGCAT	GCCGTCTGCA	TGCTCCCTCA	<b>ጥጥርርጥጥጥርጥር</b>	ACCACA ATCT
27151	TATAGGTAGC	Δ C C ጥጥጥ C Δ Δ ጥ	CTCCTCTTCA	CACCACCAAA	CECAACHECA
27201					
			ACAGAAAGAG		AAAACTGGAT
27251	TTTCCTTGGG	ATTCTCAGAT	GGGCCAGGTC	CTAAGTAAAC	ACCAATCTAG
27301	CTCTGCTGAC	CACTGGGGGC	CTTTCTTCCT	TTTGACTCTG	TTGTAAAAGA
27351	AAATTGAAAA	ACGGTCTTAT	ΤGΤGCCTΤΤΔΔ	ΔСССФФФФФ	ע הע ע ע ע ע ע ע ע ע ע
27401	ACTCATTTAA	ጥጥጥልአለርጥእር	TTTTAACTTCC	AMMUMMAAMA	MILE CHOMBAR
27/51	ACTCCTACAA	TITIE TOTAL	TITAATICC	AIIIIIIAAIA	TAAGIGITAT
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2/501	TCCCTGTACA	AAAAGCCTGT	GGGAGCCCAA	ACCAATGATT	TATTCAGACA
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27651	GAGGCGGGTG	TGGAGAGGGG	TTDCCDTCCD	CCCTCCCCTC	CAUNTIUAAU
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27951	CACCAAATCC	TTTCCCCCTCT	CCCACMCMAM	CCIOACCGCC	TGATGTCACA
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28251	CCTCV CCCTC	TTTCCCCCX CCC	TOTACTOLICE.	COCARMONCE	GGGTGWTGGG
20201	GCTGAGGGTC	1 1 GGGGAGGG	1 CAAGGAGGT	GGGAA'I"I'GCA	AGCTAGGACC
∠83UI	TGATGGGAAG	GCATCCACAA	AGCTGAGCCA	CAGAGGCTGT	GAGGGATGGG

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121601	AGCCAGGGTC	AGGGGCCTCC			TGGGACCCGG
121651	ATTCTCCCCT			CAAGTTATCC	
121701	TCAATTTCCT			CACTACTTTG	
121751		ATATGTATGT	TTGTGCCTAA	GAAGGTGTGG	TTCAAAGTTC
121801	CTTCTGCTCC	GCCCACCCAC	CGCCAGCTCC	TGCTCTGGGA	TCACTGACCC
121851	CTGTGAGACC	ATCACTTCAG	ACCAGGAGCT	GGGGTTTGGC	AGGGTGAAGA
121901	GGGGGCCGTT	TCTAGGTTTT	TGCAGTAACA	CAACTGTAAA	GGGTCACCAG
121951	GGTTGTTTTG	GCTTTCTTAG	CACAAGAGAT	GAGAGTAGCT	TGTGTCGGGT
122001	GATGGATTTT	TCATAGGGAA	ACACGTTTTT	${\tt CTTCAACTTA}$	TCTCCTCAAA
122051	TGCGCTTTCA	GATGTGGTTG	ATGATTAAGC	TAGTTTTAAA	GAAAATGAAG
122101	GACAGAACAG	GAGAGGGAAC	GCCTGCTGCA	ATTATGTCCC	TTTCTCCTGT
122151	TCCTCAGAGA	AATCAATCCC	CCCTCCTCTG	CCGTCTCTCT	TTCTTTCTTC
122201	CTCTCCCCCA	ACCTGTCTCT	CCCCTCCTCT	CCCTCCCGCT	CTTCATCACT
122221	UTCCTTCAGT	CTCTCACTGT	CTCTGTGTAT	CTCTCTTCCC	TTGCCCTCTC
122301	TIGGICICIG	ACTICTCCCCC	CCCCTCGTAC	CCTGTCCTCC	TCTTTACGTC
122331	CATCTCTGAT	ACTUTUGTAG	TGTGTCTGTG	TGTGTCAGTC	TCTTGCTCCC
122401	TCTCCCCACA	CCTTCCTTC	CCCCAATCCT.	GTCTCTGTCT	CTCAGGCGCC
122501	GGTCGCATCA	ACCCCACATC	TUTCUTCUAT	GAGCCCGTGT TGAGCCATTC	TTTTACCGAT
122551	TGCCATTCC	CCACCACATG	TICATGAGIG	CTTCCTGCTC	COMMOGGA
122601	ATGCCCATTT	ACCAATGGGA	AGACACCCTC	CATAGTCCCG	ANCTCCACAA
122651	AATTGGGATT	TGCCACTTGA	AGGAGAGTTTT	GTTTTCTGGA	AACIGGAGAA
122701	TGTGACAAGT	AATGTGTCAG	ATAACTGTGG	ATCAGGAACA	AGAAGCCCAC
122751	ATGTACAGTG	GGTAAGATGC	TCCCAGGCAC	TCGAGGCAAA	CCTCTCTCTCC
122801	TCAGCCCTGG	TCCTGTACAG	TATTTGACTC	TTTAGCCAGC	ACCTCAGCAAC

122851 AGTTTTCCAG GGCCAGAGTG CTTGCCGAGG ACCCGAACGT TGCTGCAGCC 122901 TGAAGGAGTG CCTCCTGCCT GCCCTGCCAG CCCACTTAGG ACCGCAGCTT 122951 GTTTGCAGCT GCAATGGCTC CTGCTATTTG CATATTTGCT TGGAATGTGC 123001 TGATTATAAA TCATTTACCT CTCTTAAAGT GGGTTTAAAG GACCTCTGCT 123051 GAGCAGCAAG TCCTGGCCAT GCTTCCTTAG CCTAATTTGA GTTGCTGCAT 123101 GTACTGAAAT TAAATTACTT TTCACTTTCA ATGTTCCCAA ATTCAGCTGT 123151 TGCCAACACA GGCTGGCTGT CCTCCCAATT AGCCTGAACC AGCAAGGTCT 123201 GCCTGCATGG GAAGCTGCGC CATTACCTGC CCATAAAGGG TTCCCTCCTG 123251 CTTTCTCTGT GAGTCTCCAG GCAGATATTC TTCAGCATCT GCTCCCAAGA 123301 GCTGGCTGTG AATGTGAACT CTGCCTCCTT GGTTGTTCAG AAGCACATGC 123351 TTAAGAGAAC AAATTTTCCT ACAGCAGCGG CTGCTGAAGT GTCCTCTTTG 123401 TGGCCATTGA AAGAAACTCT TAGAATGTCT CATGAAATTA TTTTCTGGAC 123451 AGAGAAATGG CACTACCTGG GGCAGACACA TTTCATTTTT AAACCAAAAT 123501 TTATGGTTAC TGTCAAGGGT AATATTAATG TTTTAAAATC CTTGACAAAG 123551 AAAAAGGAGA AGAGCTAGAA AGTTCTTTGG CTGAAGTTAC CCTTCAAACC 123601 ATGCCTGAAT TGAGCTTGAT TCTGAACTGC ATGGCACCTT TCCCTGCAGC 123651 AATAATAAGA ACTGTTACCT AATAAATACA AGGTGCTTAC ATTTAGAAAG 123701 CTCTGAGCTG TCACATTCAC GATCTCAACT AATTCTATGA CACCTATGCA 123751 AAGTAAGAAG GAAGGAATCC CCATTTTACA GAAGGGGAAT ATGAAGCCCT 123801 CACACTGACA TCGGTTGCAG AAGTGTGGCT ACATTTCAAG TGTCCTGACC 123851 CTGACCGCTG ACACTAGGCT CTTTTCACTG TGTTATGTTG TTACTTAAGA 123901 GACGATAGAG ACCATGTTGC TGAGCAGCGT GTAGAAAGGG CTTCCACCAA 123951 GTGCAGATAC AGCAGTGGAG GTCTAGAAAG CAGGAGAAAT TCTCTTTATG 124001 TTTTGGCAAA GGCAGGATGA GAATTCTAAG ATGACCTGTT TTAAACCTTA 124051 TAGAATAGCA TATTTCTCTT TGACACATGA TGATTCTTGT AAATGTAAGA 124101 GAATAAAGCT TTTCTCTCAT GTGGGCTAGT AGATATCTTC TATTCTTCCT 124151 TCCTCCTGGG CTACTGAAGA AAACCGAGAT TTCTTAAATC TTGGTTTAAG 124201 AAAACCGAGT GAAGAAAAC TCTATTTCTT AAAAAGTTTT ATTTTTATAA 124251 GTAGCCTCTC CCAGTGTCAT CGTCAAAGTT CTGTGTGAGA AGCCTTTCAA 124301 TGAAATGCTG CTTAAAGCTT TTTTCTTCCT CCATTTCAAT GTTCTGCAAA 124351 GAGAGGGCTC AGAGATGATG ATGGTGCCAC TTGTGCAGGG CCTTCCGTTT 124401 GCTTCAGGAG TCCATGCCTG GGAGAGGAGG ACATTGCCCA ATTTGCTGTA 124451 CAGCAGAGAA GGTGCCACAC CCAGGGAGAG AGAATCTATA TGGACCTCCT 124501 ACTTAGGCAG AGGTGTATGT GGAGGAAGGT AGAAGGAAGT GAAAGGCAGC 124551 CAGGTGGCTG GAGCCAGGAT GAGGAGAGCT GGAGATTTGA GGTGGGGGTA 124601 GGGAGAGAG AGTCCAGAGA AAGACAGCAG GAGTGGACAT TCTCGCTTGG 124651 AGGCCTGGCA GGCTGCAGGG AGGAGCCACA GACAGGAAAG CCTTTATAGC 124701 CAGCACCTCT GTAGTGCAGA ATGCTGGGCA AGGCCTTGCC CTGGGTGAGA 124751 GCCAAGGAGG CAGCCTGGGA GCTGTATAAC AGAACTGGCA GCAGGAAAGG 124801 ATTTTATTTC CTGCTGAGCA TGTTCTGCCC CTACCCAGAG GCCCCTACCT 124851 GCCCTGGAGA CCTACTGATG TCTCCCACTA CCATGTCCCG CCTGTGCCTT 124901 ACTGAAACAC AAAGACTTAT CATGAGAAGC TCCGAAGCAC CAAAAGGAAA 124951 AGGCTGGATC ATGACCTGGC CTTGGCCTCC AGGCTAAATA ATGAGGCAAC 125001 TCTGAAGCCA GTGTCAGAGG GTAAACTGTG ATGAAAGAAT AGATGATAAC 125051 TAGCCCATCC ACGGGGGACT GGAGTGCGCT TAAATGGTCA GGCTTTAAAG 125101 AGGGTCCAGT CAGAGCCCCA GCCAGCTTAT CCTAGCCCTT TTATTGGGAT 125151 GGGTGCTAGG AATGGGCTTC TGCAGTCCAC ACACATGTAG GGGCATGTAC 125201 ACTTGCATCC CTGAACAAGG CCGGCCTTCT GTCACATGCC CTTTGCTGGG 125251 CATTTGTGCT ATCTCTGTAT TAGTTCATTT TCTTATTGCT ATGAAGAAAT 125301 ACCCAAGACT GGGCAATTTA CAAAGAAAAA GAGATTTAAT GGACTCTTAG 125351 TTCCACATGG CTGGGGAGGG CTCACAGTCA TGGTGGGAGG TGAAGGAGGA 125401 GCAAAGGCAC ATCTTACATG GTGGCAGGCA AGAGTTTGTG CAGGGGAACT 125451 GCCCTTTATA AAACCATCAG ATCTCATATA AGTCTTATTC ACTATCATGA 125501 GAACAGCATG GGAAAAACCT GCCCCCATGA TTCAGTTACC TCCCACTGGG 125551 TCCCTCCCAC GACACATAGG ATGATGGTAG CTACAATTCA AGATGAGATT 125601 TGGGTGGGGA CACAGCCAAA CCATATCATT CTCCATAGGT GGCTTTGGTC 125651 CATGACAGCC TGCAAGTTCC TTTTCAATGC TCAGGCCTGG CTCTTTGGCC 125701 CAGGGTAGTC TGGATTATCA GCAAGGGGCC CAGGAGTCAT CATTCCCAGG 125751 AAATGCAGAG CTTCCCTGTA GGCTTGCTCT GAAGTTCCCT CCTGCCAATT 125801 TGTACAGCTG AGGGATCTCA GAGCCCCTGC CCTCCCTGGG AGGCCTTGGG 125851 ATCCCCACTC TCGTGCATAC CAACACCTTC TCCTTACCTG CACACCCTGC 125901 AAGCCATGTG CTGTGGTGAG ACAGCCCCTG CCACCTGCTC ACTCTCACCA 125951 TAGCTGGGGC CCCTGGCGTC TGTTTCTGCT GTGGAGCTGT GAAGGCTGTG

126001 CTGTGGGTGG CCTGGCTAGT TCTCTGGCAG GGAGAAGTGC ACCATGGGCA 126051 AGGTGAGGGG TCAGCCTCTG TAAGCCCTAC AGCATTCTCT GGAAGCAGTC 126101 CATTTCTGTG AACTCTTGAG GGCCTGCAAC AACCATGGCT GAGCCCAGAC 126151 TAACCTCTGG GCAGCCCCTA CCCTTGCCAG TTATGTTTCA TGGGAGCCTG 126201 ATTATTTTA ACAGATTCTC CTATTGTTTC AGTTGCTTGT AGTAAATGTT 126251 GCTCTGCAGC ATTGATGCTA GGGTAGTGCC AGCCAGAAAC CTGTGCAATG 126301 CTCAGATCTG GCTCTTTGGC CCAGGATAGT CTGGATTATC AGACTGGGTT 126351 TATTTTCTT GGCATTGCAG TCTGGCTTCC TGATTATCTT TCAAACACAC 126401 ACTTGCATGG CATTTCCTTC CATACTGAGC AGATTCCATC AACAGTCTTG 126451 GGATTCCACT TTTCCTTTGC AATATGGACG TTTTTGCATC AGTTTGCATT 126501 AGCTGTTAGT GAAACTGGCA CTGCATCTGC AGGCAGACAT CGCCAGACCG 126551 CAGCACAGTT CATCTTCAGA TGTTTTCCTT TTCCATGTTG GTGGCAGCTT 126601 CCTTTGCTCC TTCCCTCCTT CTCAAGATAA ATTCCCCAAA GCTTGGACCC 126651 AGCACTTTCT GCCTATTCTC ATGGTTTTTG TTGGGGTATG AATGCCTTAG 126701 ATGGCACAGA GAGGCATTGG AGATTTACAG CCCTTTTTAT TATGACTGCA 126751 CTTGAGCTGC TGTCCCAGCA GCAGACCTCT TCCTTTTGAT GACAGGTCAA 126801 TTGGTCAATT CCGGGTTGCT CTGTTGGCTT CTTCATCAGA CTGTAAGCTC 126851 CATGTAGGTA GGGTCTATGT CTGACTTGTT CACCCTTGTG AACCCAGACA 126901 GTGGTCCAGA GCCTGGCACA TAGTGAGCAC TCAATAAACA TTTATTGAAT 126951 GTACAAATAA ATAGAATGTT CTTTCAAGCT GAGCAGCTGA CTACCTGTGA 127001 TGAGTTCCCT TAAAAAAGCT TAATAGCTTT TTTTTTTTT TTTTTTTGA 127051 GACAGTCTCA CTCTGTCACC CGGGCTGGAG TGCAGGGGCG CAATCTTGGC 127101 TCACTGCAAC CTCTGCTTCC CAGGCTCAAG TGATTCTCCT GCCTCAGCCT 127151 CTCAAGTATC TGGAACTATA GGTGTGTGCC ACCATGCCCA CCTAATTTTT 127201 GTATTTTTAG TACAGATAGG TGTTTTGCCA TGTTGGCCAG GCTGGTCTCA 127251 AACTCCTGGC CTCAAGTGAT CCACCCACCT CAGCCTCCCC AAGTGCTGGG 127301 ATTACAGATG TGAACCACCG TGCCTGACCA ATGCTTGATA GCTCTTGAAT 127351 GATCAGTCTC AGAAATAAAA CTTGCAATCC AGATTAACGC CAACCAAGAG 127401 TTAAACATCT CAAGGCCAGA GAGCAACATG CTCACTGCTC ATGGAGTCAC 127451 ATGTACTGAC CTCAGGACAT CCTTGGTAAA CAGCGCAGTG CACAGCCCCT 127501 GGCAGGCTAG CTTGTTAGGG CTTATTAGGC CAACAGCCAC GGTCCCTTCC 127551 AGCCTGGGTT CCACTGGAAC CCAGCGGGTT ACTCGGACCG CTGCTATGTC 127601 ATGGGCTGGC CTGCCTTCCT CCACACACGG GGCCGTAAAT GTGATGTGCG 127651 GCACCTGCTG TTTGGTGTCG GGAGCTGCTC TTTTCTTGGA AGTTTTGCTG 127701 AAAGGTAGGT GAAGCCTTAG GGAGAAATCT CATTTAAAAA TCAAGTTTCC 127751 ACTTCCCAGA GAAACAGAAG AACTATCATC CACTAAAGCA TTTCTTCAGG 127801 ATCATGAAGA AGGTTATTCA GCTGGGGTGG CAGCATCCGG AGCAGAGGTT 127851 TAAGGTCTAG ATGTTAGATT GCAAGGGGAC TGCCCAGAGG CCTCGCTGGG 127901 GAGAATACAG TGGAAAACAT TGAGGCAGAG GAGATCCTGG CTCCCACCGC 127951 GTCCATACCA GGGCTCTGTC ACCCTCTCTC CAGGAGCTGG GCCCACAAGT 128001 AGAACCGGCT TCACGTTGAT CCAAGCCAGG TATAACCAGG ACAAGGAGTG 128051 GCTGGGGTTG AATCAGAGAA TGTCCCCTTA GGCAAAACCT TGGTGACTTT 128101 GAAAGCCATG TGTGCTATTC CAGAGGTCTC TTATACCCAC ACCTCTCACC 128151 TTCAGTGCCG CAGGATGACC ATGAAGCACT TTGGTGGTAT TTTAAGTGCC 128201 TCGGTTTCTG CGAGAAACTC AAATAGTAGT AATGGCAAAT ATTTACATAT 128251 GGCTTATTCT GCACCAGGTA CAGGTCTCAT GGTGAAAGGT TAATATTATG 128301 GTCCCGATTT TGCAGATGAG GAAACGGAGG CTTACAGAGG TGAAGTAATT 128351 TGCCCAAGGG CATCAGGCCA GTTAGTGGTG GAGCTGAGAT TTGAACCCAG 128401 GCAGTCTGGC TCCAGCCTGT GAGTCCCTCC CCATCTGCCT ACTGCATGCG 128451 GGGGTGGTAT GACCAGCAGG GTCAACTTCG CCTGGGGTCC ACATCTGCCT 128501 TTCTCCCTTG CATTCGGTGT TAGGTCCTGT CACAAACATT GTCCCATTGG 128551 ATCCTTATAG GGAGGGTAGA GTGTCCCCGT CTTTTCTAAT TTTTTGGAGT 128601 TTTTATTCAA TTTATTTGT TTAAGCAGAT AAAAGACACA TTAGCCACAC 128651 TGCTGTGCAT TTCCCAAAGA CCACAGGAAA AAAACTCAAA AACTCATGGC 128701 ATTAACATAG TATTTCATTT TCTAACAGCT TTATTGGGAT ATAATTTACA 128751 TGCCAGAAAA CTGATCCATT TTATGTACAA GTCAATGATT TTTGGTCTGT 128801 TTGCAGAATT TTCTAAAATT AGTTTGTCAC TACAATCTAA TTTTAGAACA 128851 TTTTCATCAC CTGCAAAAGA AACTTGATGC CGATATCCAG GCACCCCCAT 128901 GCCCACCCCA GCCCTAGGCA ACCCCTAACT CACTTTTTGT CACTGTACTC 128951 TTGCCTCCTC TGGGCATGTC TCACATGGAC TCATACACAA TGTGTCACTT 129001 TGTTTCTGAC TTTCTCCACT GGGCACAGTG TTCTTGAGGT TCTTCCATGT 129051 TGTTGCATGT CTTTTGGTTG CTGAATCATA TTCCATCACA TGTGCCACAT 129101 TTTGTGCATC CGTTCATCGG CTGATGAACA TCTTGGTTGC TTCCACTCTT

129151 TGGCTATTGT ATTACCCTCT TTAGATGGAA AAAGAACTGC ATCCTAGAGA 129201 AGTCTTACGG CCTCGGTATA GACATCATCA GTGGAGTCTG GCTGGCCCAG 129251 GCCGGTGCCT TCTGGTTGAT TCACTCAAAA TAGGTGTCGA AACTGACACC 129301 TATTTACTCC TTTTTTGTGC CCAGCACTGG GCTCAGCCCT GGGAGCCCTG 129351 CAGCAAGTAA GACGCACATG GTCCCCGCCT TCATGGGATT GTCATGCAGG 129401 CAAGCAGTAA GTGAGCAAAT CAAGGCAGGT GAGTGTTAGG TAGTGATGAG 129451 TGCTGGGAAG GAAATCAAAT AAGATAATGT GGAGACATAT AATAAGGACT 129501 TTAGAATTTT TCTGCTTTTT AATTTTAGTT AAACTTCTCT CAATTTCTAC 129551 CCGGCAGTAG ACATTTCTAT TTTACTTAAA GAATTATCCA AATACATTTC 129601 ACTTTACATG GAAAATGTGC AAAGATTTGA GAGGTGAGAA ATCATTTTTA 129651 TCTGTATGCT TTAGGGACTG AGACACTGCT GTGGATGGGG CGGCTTCTCT 129701 CCATACTTTG TGGGGTCAGT GAAGGACTCC TCGCTTCCCT CTGCCACCCC 129751 TGCCTAACAA GGCACCCTCC TTTCCATTTA GCAATCCGGG TCATCGCAGA 129801 GGCCTCAATA GCCCCAAGCA GAAACTGCAC TCGTGTGTGT GAGCAAATTA 129851 CCCCAGTTAT CTGGCCATGT AGAAAGCTAC AGTTTTACTC TTCATGAAAA 129901 ATTAAAATCT TGTCCTGATC TGATGTAAGG AAAAGGATGA GGCAACTTGG 129951 AGGAACTCAG CTATTGTTGA TCAGGCAGAT GATAAACTAC ACATTTTCTT 130001 GACTCAGGGG ATCAATGGAG AATCTTAGAG AGAAACTCAC AGAAGAAATT 130051 AAGATTAAAT TTGCAAGCCT GTAATATGGG GAATGCATTC TAACAACTAC 130101 AGCAAAATAA GGCTCTCTCC TGAAAATGCA TTATTTATCC CCGCCTGTTA 130151 CCACAGCTAC GGATGCTCCT TCCTGTGGTC TGAACCCGAG TGGGTTATGG 130201 AAGCAGTCCA GAGACAGACG ACTTGCTCAC CAATACAGTT AGAATTTCAG 130251 ATGAGCAGTC AAGATATTTT TAAACTGTTT GTGTGTATAG CCACACCATA 130301 AATCGTGAAG ATGAAGGTAG CTGAGTGAGC CTAAATCCAA ATGGGGCCAC 130351 AATGTGGGCT TTATGCAGCA TACATTTTAT TAAGAGAAAA AAAATCAGGG 130401 AATCGGTTAT GTGGCTCATT CCCACACATT TTTCATTAGT AATATCTTGG 130451 AAGAACATCA AAAGTGGTTG CTTGGTTCAA TGGGGACCTT CAGTAGAAGA 130501 ACATAATTTG CCTCCTAATG AAACTCACTC ACACAACGAT ATGTACCACA 130551 GTGAAAAATC AGGAAGAGAT ACTTGTATGG CTGGCATTAA TGATTGGCGT 130601 CTCCCTCAGA TGTCATCGCT GTCAAAGCCA CACTGGCCAG ACAATGGGAA 130651 CTTTCCAGTA ATTGAAGCAT AAAGTGACAT GAAATGTCCC CAACAAGAGG 130701 TATGCCTCAG TACCTAAGAC AGAGTTATTA ATTTAATTAT TTGGGCAAAT 130751 TTCTGTCTGA ATTCTCTGGA AAATTGGCAC TTCTCAGGAA AAGAAAAAAA 130801 AACATTTTTT GCAGAGTTTT GAAGATAAAG TTTGAAGAAG ATGCTTTCAG 130851 AAAAGTTGCC GCCCAAACCA AATAAAATTT CAGCAGGTTG TTCTCTAAGA 130901 GAAGAGAAGC AGACAAAACA TTAAAGGGTC ATTTTCCCCC CGTGTCTTCC 130951 TGAGAAGAGA ATAACTTGAG TCCATTAAGA GCGGGGTTTT GGGAATCACA 131001 CAGCACTGTT TGATATGCAA CTCTGGTGGC CTTGGGCAAG CCACATGTGC 131051 TCTCCAGCCT CAGTTTCCTT ATTTGTAAAT TGGGAACATA GTTAAACCCT 131101 GTCTCCATAG GTTTGCTAGG AGGATTAAAT GAGTTGTATG AAAATCATTG 131151 AACACAGACT AGCAGGCCTA AAGTAAATGC CCAACATAAT GGTAGTCTAT 131201 TGAAAAGACC TAAAAAGAAT GGAATTTGTT AGAATAGTAG AGCAAATGAG 131251 AGAGAAAATG GCTGAACTGC TTATTGGTTA TCTGTGAGAA ATTTGACTCC 131301 TTTCCTTTAG AAATCAGAGT AGTATTTGTA TAAGCCAACT AAGCTATCTG 131351 CAGATTTGAA GAATATATTT TAAGCTTTTT CTTTTCTTT TTTCTTTCTA 131401 GATTTTTACT CACTAATAAT TATTGAATCA TTTAAACATA TTTTAAACCA 131451 AATTTTAAAC CTAAATAGTA GGTAAACATC TTCATGTCAA TAGTATTAGT 131501 TTGCTTGCTT CTTAAGCAAA ATGCTGACAG CAGAATAAGG CTGCAGGGGC 131551 ACAAAAGTCT TCAATAAGAA AATGATTTAC TGAGGACGTA CTGTGTGCCA 131601 GATGCAGCCC CACCCCCAGA TGTTGAGGCA CTTTGCCTAA GAGGCCAAGG 131651 TCATGGGTGT AAACTTTAGG TGGGTCAGTT AGATTCATTC TGATTGGCTT 131701 GATCCTTCTT CAGGTGAAGA AGGATCCCAT GACCACCATA TATGTATATA 131751 TAAAGATGGC TCAATGAGTG TCTCACTGAC TCGGGGTCAG TGAGGTCCAC 131801 TCTACAGAGA AAGGACAAGC TCTGACCCTT GAATAGGGGA ATTGTAGTTG 131851 GGTAAATAGG GCTCAGAAGG ACATGTTGGA CATGGACAGA GATTTCTCCT 131901 CTATCCTGAG AGAATGGACA TATGTCAGTG AAGGTGGAAA TTTGACATCT 132001 TAAAAAATTC ACAGAACCAT TCTCCACAAC AACTTCTCTC TAACTAGCTT 132051 TCCCATCATG CATGAATATT TACACCTGCT TAAAATGCTG GGGATTGGAG 132101 GAACAAACTT TGTTCTCAGT CTTAAATTTT CCTGAGAGCT ATGAAAGCAT 132151 TGGTATAACA ATGTGCTGCT AAACTGAGGG CCTTGACCAG TGTTCATGTC 132201 AAGCCCATGT CAGCCATGCA TGAAAACCAA ACTGCAATGT GGTATACACA 132251 AGACAAGGCG GTCGAGGGGC CATAAGCTCG TTGCCCAAGA TGTAGCACTC

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 336051 AAACATAATG CTGAGTAAAT GAACAAGCCC GTGTATATTA ATCAGTTGTG
 336101 GGCCTCCAGA AGCCGTCGTG TAACTAAATG CACGTCACGG CGCTGCACGC
 336151 GCGTGCCTCC TCTCTCCCTC CACGCCGGCT TTCCATCATG CCCTCCTTAC
 336201 CACCACGCTG GGCAAACTGC TTTTTCCACA GACAAACAAT GCGTTAAGAA
 336251 TGCAGTGAGT GTAAGTGTTA CAAGAGCTAT TGCTTCTTGG CAAACACTCA
 336301 TTCCTTTGGT TGTTGGCTTC AAGAAATGGC CGTGTCATTA ATTTTCAGTC
 336351 CCTGTTTTTA ACTGAAATGA AACTTTAAGG TGCAAAAATT AATAGAATTC
 336401 TGGCTTCCTT TCTGATTGTA GGAATTGACA TTCCTGGTAC ATTCCCCTTG
 336501 TTTCCCTGGA ACTGTTGCGT ACCATGAGTC GCTCTTAGGA AGCTGGGGGT
 336551 GAGAAAGTCA TGTTGGGAGA AAGTGTCGAT TCCAAAGCCC CCCGGTCAAA
 336601 GCTGGCTGCT CTTCAGGGTG GAGGAGGAAA AGCAGCTCTG TTGAGGTCCC
 336651 AGGAGGGCAT CCCCTGCATC CCTCCCTCCC TCTGCCACTG GCCATGCCAC
 336701 CCAGCACCGT GCAGGTGCCT TTTGTATGAC CTAGAAAACT GATTAACTTC
 336751 CTTATGCAGT TCATCCCCCG CCTGCTCAGA GATAACCCAG GTAATTTCTT
 336801 TTCTGATTGT ATAAATCTTT CATACCCAAG TCACAGTCAT AATTAGTTAC
 336851 ATAAAAATTC AGGTTACGAC TTAGGCTGTT ATTAGGAACA TGAAAAACAG
 336901 TGAAAAGTTT TGTCTCACTC ACTCTCTAAT AAAAACTCTC AAGGTCTCTG
 336951 TTACTGAGAA CAGAAGGGAC TTGGTATCTC ATTAAGGCTA AAATTCAATT
 337001 CAGAACAGAA TCTCACTAGC TGGGCTTGAT GCTGGGGCGG TGGGGGGCAG
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337051 GAAAGGCTAG CCACTCCTGG CAAGAAGTTT AAAGCAGGTC TGTGCTCTCC 337101 ACACCTGTA TGTGTCGTGG CCTTCCCTCG GCTGGGCTGA GAATCTGTGC 337151 TTCCAAAACC AATGCCACAA GAAGCCCAGC AGAGGCATCT TCTCAAATGA 337201 AAATATATTC CCCAAACCAA AGTGCTGATC AAACCCATCT TGCAGCACAT 337251 CACACTGGAA AATAACACAG TGGAATTCCA TTAAGCCGAT GGCTCCTAAA 337301 GAACAAGTCA GCTTTCTGAA AAGTCCCAGA TAAAGCACTA CAATTGTCTC 337351 AATGGCTTAA TGTAATCACC TACCAGGGGC ACTAGATTCA TCTTCCCCAA 337401 TTGGGCAAAT TAAGAGCCAT CGAAAGGAAT CACATTCCCA CAGTTACCCA 337451 GGAGACTGAG AGGGCCCTTC AAGACGGGCA AGCAGAGCCT CTTCCTGCTG 337501 CAGCCACTTC CCTCCATCTG GCCCAACTCA GGCCTGGAAG CAGAGCTCAG 337551 GAAGTAGCTC TAACTGAACT CCAACTTACA ATGGAACCTC AGAGAGCCAA 337601 GTGTTTGAGT TCCAAGGATG GAGGTAAAGT TTTTCAAAGG CTTCCAGTCC 337651 TGAAGACTGA GGCCCATTGT GAGTTATTAA ACTCGTCCTT TCCAGATGGC 337701 ACAGCGGATT ATGACTATGC AACCCTAGAC CCAGCAATTG GAGTAGTTCT 337751 GGGCTTTGGA TAATGTGGGG GTTATCATAC AAGCTATGGG GCAGGAGAGC 337801 ATAGAGTAGG GGTGACCTGC CCTTTACAAA ATCCCAGTCC CCGCATTGTC 337851 ATCTGAAATG CAAGAGTCAG ACCCTCACCT CAGCAGATCT CATTCCTCAC 337901 TTTCTTGCAG GGCAGAAATG CTGAAAACAT TCATTTGTCA AAACTTTGAA 337951 AGCCACAGGA CTGAGCCAAC AAGGAGAAA GCAATCAGGA CTTTGTCATC 338001 AGAGGAGGCG GACTGCCCCC ACGTCCTATC AAATTTAGTC CGGAATGTAT 338051 TTTGCCATTA TTGTAACTAT GCCCTTCAGC TGCCACGCCG TTTCAGGAAC 338101 GGAGCGCTAA TACATTCTGT GGCACAGTCT CTTTATGGGG AGGAAAGGAT 338151 CCCAGTGCCC CTTGACAGAG AGAGAATAAT AGCATAATGC AACAGAACAT 338201 TTTTGAAATG CTAATACACG CTCTCCGCAA CTTAATTTTA TTTTTTTCTT 338251 ATTGGCTTTT TTATATGACA TTTCACAGTC CTGTAGCCTC AATAGCTAGA 338301 TCTGCATCGT AAAAATGACA ACACGGTGAT TTAAGGAGGA GAGTCCATCA 338351 GAGCGAAATG GGTGGTGTGC TTTTAAAGTA TCAGTTTAGC ACCTCTTACC 338401 TGGGATCAAT GTTCATTCTC AATACATCAT TAAAGCATCC TGTTAAATCA 338451 CTTGGAGAGT GGTTGTGCTC TTCTTATGCA GCCCCAGGTT TGATTATGGA 338501 GATAATGAAG TGGAACCCTG CAGGAAGGGC CATGTTAGGC ACACGTACTT 338551 TATTGAGTTA GGGGCTACCA GGGAAGGTTG ATCTGAATTA AAGAAACTTG 338601 AGAGGAAAGG AGAGAGAGA AAGCAGAGCA GGTGCGTGGG CATGGAGGCT 338651 TCCATCGGAA CTGGATAGGC AGCAACAGAT GCCGTCAAAT TTGAGACCTC 338701 CTCTCTAAGC TTTACAAGCA CAGTGTTCAC CAAACCCATA TTCATAAGGG 338751 TCCGAGCTGC AGTGAAGTCT GCAGTCAGCA TGTAAGATGA GAGAGACACA 338801 CTGATGGGAC TGGTAGAACT TTCCAGACCC CAACCAAAGT GAGCTCAAAG 338851 GCAAACAGGA TTAACAGGTC CAGCACCCCT TACATGGAGC AGACAAAGGA 338901 CCAGACAAAG GACCATCTCT AGTGAGGGCT TGGGCCAGAG CATTGGGCTG 338951 ATTGAAAAAC TCCAGAACCC AAGTGAGCAT GAGTTCCTAA GAACATATCC 339001 TTCAAGTCCA GCTGCCTGTA TGTGGCCATC GTTAGACCCT GAGACACGGA 339051 TGTTCCTCGG TTTTCTTTCC TTTCTTCTGG AATATATTTT GTTCAAAGTA 339101 ATACATGCTA ATTGTACACT ACTGCACATA AGAAGTTGAA AGATAACCCC 339151 TCCCAAATCC CACTGCTCTC TTATCCCCCG TCTCACGCCT CATGGATAAA 339201 TTCCACTGGC AATTTGCTTG GACCCACACA GGCTTTCTCT CCTGCATGTA 339251 CAAACACCAC ACAGGTATTT TTGTGACCTG GGATCAGACT CCACACATTG 339301 TTTTGCAACT TGCTTTTCTC ATTTAAAACC ATTTCAGGTC AGTACAAATA 339351 GATTTGCCTG GCTCTTTCTT TTTTTTTTT TTTTTTTTG AGATGGAGTC 339401 TCGCTCCATC GCCCAGGCTG GAGTGGTGCA GTGGCACGAT CTCAGCTCAC 339451 TGCAAGCTCC GCCTCCCGGG TTCACGCCAT TCTCCTACCT CAGCCTCCCG 339501 AGTAGCTGGG ACTACAGGCG CCCGCCACCA TGCCCGGCTA ATTTTTTTGT 339551 ATTTTTAGTA GAGATGGGGT TTCACCGTGT TAGCCAGGAT GGTCTCGATC 339601 TCCTGACCTG GTGATCTACC CACCTCGGCC TCCCAAAATA CTGGGATTAC 339651 AGGCACGAGC CACCGCGCC AGCCTGCCTG GCTCTTTCAA ATTCTATTTG 339701 AAACCAAAAC ATAATAACCA ATCCCCTGAT GATGGATATT CAGGTTGTTC 339751 TTAGTTTTTC ACTAGATAAT ACTGCAATTG GCGTCGTTGG TCACAGATAT 339801 CTTTGCACAT CTGTGCAAGT ATACCATCGG ATACCTTCAC TAGAGGCTTC 339851 CTGACAACTC TTCCAAAAGT GACTGGCTCT TGTCTCCATG TTTTATGGTT 339901 TCCAAAGTTA GGAAAAAAA TGAAACAGCT CACTCCCTCC TCCCTGTCTC 339951 AGGATGAGCA GGAAGGCAGG TGAGGTTTGC ACTTGGACCA TGCTCCTGCA 340001 GAAGCCGGGC TACCAAGACA AATGAGCCGG GCCTCCACCA CCTCCCATTT 340051 GACCTGCAAA GTCCTCAGAA CTCCCCAGGA CTCCTCAGTC ACCCAGGAAC 340101 TCAAATGTGC ATTAGCCCAG CCTTTCAAAC AACACCCATG TAGGGGGGTA 340151 GTGACTTGTC TCACTCAAAG TAGGGGACAG CACACAGGCC AGGGAGGAAT

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340201 TGGAGCCCTG GGAGTCAGCA TAGAATTCTC CATCATGTGG TGTGGGAAGG
340251 CACAGACCAA AGTTGACCGG ACCCAAAGTG TTCTGTGCTG TAAACTGATG
340301 ACCTGGGAGC TTGGGCGACA ATAGATGAAG CTCCCAGGAA GGGGAATCTA
340351 GCCTCCGCTC TTGGTGAAGA CAGTGCTCAT GCTAAAGCCT GTTGAGTGGG
340401 TTTATCAGTT CTGTTCTGAT TACCTGATGT CTCTGGCTCC TTGATTTC (SEQ ID NO:3)
```

#### FEATURES:

### Genewise results:

Start: 10518

Exon: 10518-10643 Exon: 41341-41374 Exon: 207620-207868 Exon: 291903-292096 Exon: 295781-295909

Stop:

### Sim4 results:

Exon: 2001-2175, (Transcript Position: 1-175)
Exon: 10508-10643, (Transcript Position: 176-311)
Exon: 41341-41374, (Transcript Position: 312-345)
Exon: 207620-207868, (Transcript Position: 346-594)
Exon: 291903-292096, (Transcript Position: 595-788)
Exon: 295781-295904, (Transcript Position: 789-912)
Exon: 337911-338449, (Transcript Position: 913-1451)

#### CHROMOSOME MAP POSITION:

Chromosome 5

#### ALLELIC VARIANTS (SNPs):

Domain Position Major Minor 1107 Intron G Intron 5479 G T A G T A 5480 G Intron Intron 6100 С G A C C G Intron 6122 6883 Intron 7641 Intron 8493 Intron 9627  $\mathbf{T}$ Intron A A С 9796 Intron Intron 9868 G T 10209 С Intron G 10311 T Intron 10831 C  $\mathbf{T}$ Intron  $\mathbf{T}$ 12230 С Intron  $\mathbf{T}$ 13378 С Intron -T13423 G Intron 13425 G Intron 14070 С Intron 14116 Intron 14508 T С 14645 Intron Α 14932 G Intron G 16272 C Intron 16945 C T Intron 17065 Α Intron 17442 G Intron Α 17475 С G Intron

17844	A	С	Intron
17929	A	G	Intron
18283	С	-	Intron
18540	С	G	Intron
18592	С	${f T}$	Intron
18616	A	G	Intron
20491	С	T	Intron
22023	A	G	Intron
22248	A	G	Intron
23118	G	С	Intron
23789	С	A	Intron
23800	T	A	Intron
23930	T	A	Intron
24159	T	G	Intron
26339	G	A	Intron
26508 26570	T T	G A	Intron Intron
26582	A	G	Intron
26693	G	A	Intron
26884	C	T	Intron
27320	C	T	Intron
27339	A	T	Intron
27542	G	A	Intron
28586	A	C	Intron
28591	C	T	Intron
28599	G	A	Intron
30857	A	G	Intron
31503	A	T	Intron
33107	T	-	Intron
33671	A	G	Intron
35045	C	${f T}$	Intron
35944	G	${f T}$	Intron
37157	G	A	Intron
37603	A	${f T}$	Intron
39242	С	G	Intron
39404	Α	C	Intron
40395	С	G	Intron
42294	G	T	Intron
43354 43522	A	G G	Intron Intron
43322	A C	A	Intron
45677	A	Ĝ	Intron
46024	A	G	Intron
49591	C	T	Intron
49822	Ā	G	Intron
50057	G	А	Intron
50523	G	A	Intron
51537	C	$\mathtt{T}$	Intron
52702	С	-	Intron
53996	T	С	Intron
56613	A	С	Intron
58383	G	A	Intron
58512	A	G	Intron
59951	G	A	Intron
63246	T	С	Intron
63904	A	G	Intron
65698	T	A	Intron
66118	A	G	Intron
66158	A	G	Intron
66604 67766	G C	A T	Intron Intron
67863	A	G	Intron
69511	C	T	Intron
UDULL	Ç	Ŧ	THETOH

850 850 850 850 850 850 850 850 870 891 920 930 940 950 970 970 970 970 970 970 970 970 970 97	395 575 112 565 798 738 059 061 328 517 788	C T C C A A A G T A A G C G A T C T C C C C A G T A A G C C C C A C A C C C C T C A G C A T A G A G T G	T A T T G T G C G C T A G T T T G C - G T T T T T T - T G T T G T C T C T G A T G - G - G A C T T	Intron In
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129116	A	G	Intron
	A	C	Intron
129549			
129820	Α	${f T}$	Intron
129934	Α	G	Intron
132304	A	G	Intron
133008	A	G	Intron
133347	Α	G	Intron
133374	T	С	Intron
133636	Ā	G	Intron
134315	A	G	Intron
136612	A	G	Intron
136839	С	T	Intron
136964	A	G	Intron
137136	С	T	Intron
139365	С	A	Intron
141321	C	-	Intron
141736	A	- T	Intron
142173	A	G	Intron
142337	G	ΤA	Intron
142788	Ċ	T	Intron
146349	G	T	Intron
147030	G	T	Intron
147884	Α	G	Intron
148673	$\mathbf{T}$	С	Intron
149048	A	T	Intron
151229	A	G	Intron
151848	A	T	Intron
152415	A	G	Intron
152539	С	G	Intron
153191	A	G	Intron
153232	A	T	Intron
153817	A	T	Intron
156544	T	C	Intron
156579	Α	G	Intron
157391	A	C	Intron
158718	А	G	Intron
160186	А	G	Intron
161108	G	T	Intron
162060	C		Intron
		G	
165993	A	T	Intron
166679	С	${f T}$	Intron
167136	${ m T}$	A	Intron
173782	T		
		- A	Intron
176290	T	С	Intron
181889	Α	G	Intron
182606	С	T	Intron
184663	Ċ	T	Intron
185392	С	T	Intron
186612	T	С	Intron
187014	С	${f T}$	Intron
187090	G	-	Intron
187290	С	G	Intron
187862	T	C	Intron
187937	G	A	Intron
188286	С	T	Intron
188478	G	A	Intron
189156	A	G	Intron
189488	Т	C G	Intron
189909	A	G	Intron
189910	T	G	Intron
194673	T	A	Intron
194808	T	C	Intron
194884	A	G	Intron

FIGURE 3, page 112 of 188

195290	A	_	Intron
195939	С	G	Intron
196291	A	С	Intron
196533	A	С	Intron
197176	A	G	Intron
199693	Α	T	Intron
199734	G	A	Intron
201371	T	A	Intron
201433	T	C	Intron
201433	A	Ğ	Intron
202730	G	A	Intron
204904	G	A	Intron
		A	Intron
205171	G		
205991	T	G	Intron Intron
206052	С	G	
207237	C	Т	Intron
208791	С	G	Intron
208799	С	G	Intron
209076	С	${f T}$	Intron
209143	A	G	Intron
209185	С	G	Intron
209499	С	G	Intron
209614	G	T	Intron
209708	С	G	Intron
210292	A	T	Intron
212286	A	C	Intron
212767	T	C	Intron
212809	G	A	Intron
213100	G	A	Intron
215017	Ā	G	Intron
215021	C	T	Intron
215180	Ċ	T	Intron
215370	A	Ĝ	Intron
215412	G	-	Intron
216552	C	T	Intron
217007	A	G	Intron
217549	A	T	Intron
217567			Intron
	A	G	
218100	G	T	Intron
219737	A	G	Intron
220681	C	T	Intron
221225	C	Т	Intron
221960	A	C	Intron
222673	A	C	Intron
223053	${f T}$	C	Intron
223881	А	T	Intron
224236	G	T	Intron
224238	A	G	Intron
225653	$\mathbf{T}$	С	Intron
226563	G	T	Intron
227365	G	T	Intron
228457	G	A	Intron
228488	A	G	Intron
228531	A	G	Intron
228665	A	С	Intron
230490	A	G	Intron
230976	T	-	Intron
236111	T	С	Intron
236317	Α	-	Intron
236323	T	_	Intron
236325	G	_	Intron
236345	Ğ	С	Intron
236534	Ċ	G	Intron
200004	~	J	11101011

FIGURE 3, page 113 of 188

238076	A	G	Intron
239545	G	A	Intron
247765	Α	G	Intron
250858	T	G	Intron
251536	Ā	G	Intron
252599	A	T	Intron
252647	T	Ċ	Intron
252649	G	A	Intron
252783	G	A	Intron
253875	A	G	Intron
254076	${f T}$	С	Intron
254547	G	A	Intron
254892	Α	${f T}$	Intron
258431	G	A	Intron
261462	G	A	Intron
262167	G	T	Intron
263806	A	С	Intron
265167	A	G	Intron
265258	G	A	Intron
267127	T	C	Intron
268343	Ċ	T	Intron
268640	c	T	Intron
269021	T	G	Intron
269429	C	A	Intron
269739	A	G	Intron
271247	G	-	Intron
272820	T	G	Intron
274065	G	A	Intron
276592	G	T	Intron
276628	С	${f T}$	Intron
279257	С	A	Intron
279925	${f T}$	С	Intron
280127	$\mathbf{T}$	A	Intron
280433	С	A	Intron
282808	G	-	Intron
283120	G	A	Intron
283749	${f T}$	C	Intron
284339	G	${f T}$	Intron
284382	${f T}$	C	Intron
287120	С	T	Intron
287415	С	${f T}$	Intron
287683	A	G	Intron
287699	G	A	Intron
287723	A	С	Intron
287833	G	A	Intron
288000	G	С	Intron
288050	A	T	Intron
288331	G	Ā	Intron
288438	Č	-	Intron
288625	Č	${f T}$	Intron
288819	Ā	Ğ	Intron
291274	T	C	Intron
292997	C	T	Intron
296708	A		
		G	Intron
296744	T	C	Intron
297548	A	G	Intron
298436	С	T	Intron
300652	T	C	Intron
300653	G	A	Intron
300747	G	A	Intron
300776	A	- G	Intron
300874	G	A	Intron
301027	T	А	Intron

The Bull time also for the second control to the second control to

FIGURE 3, page 114 of 188

	00000			
	311656	G	${f T}$	Intron
	311776	G	A	Intron
	311901	G	A	Intron
	312574	G	${f T}$	Intron
	312593	С	T	Intron
	312694	T	G	Intron
	313283	A	G	Intron
	313403	A	G	Intron
	313982	A	G	Intron
	314043	G	A	Intron
	314103	G	A	Intron
	314832	G	${f T}$	Intron
	315368	С	G	Intron
	315431	T	C	Intron
	315993	T	-	Intron
	316107	A	G	Intron
	316352	С	G	Intron
	319520	G	A	Intron
13	319699	A	C	Intron
.73	320863	G	A	Intron
, 555 , 555	321530	${f T}$	C	Intron
112	323257	Α	G	Intron
225	323754	Α	G	Intron
din don	324544	Α	G	Intron
	324599	Α	С	Intron
ű	324921	С	${f T}$	Intron
	327295	С	G	Intron
grang grang	330836	G	A	Intron
Ξ	331239	$\mathbf{T}$	_	Intron
£w)	331612	T	С	Intron
4.9	331823	С	T	Intron
* :	334749	A	G	Intron
i.				
L	Context:			

302581

304512

305258

307676

309692

Position

1107

5479

Α

G

G

С

T

G

G

Α

С

Α

G

Intron

Intron

Intron

Intron

Intron

Intron

TGGACCCCAGACCAAAACTGTGTGATGCCAAGACCGCGCTGGCCCATTCACTGCTGTATC TCTAGCAACTATTAATAGCACAGTGCCTGCTGCATTGGAGGGGTTCAGCGGCAGGAAAAT CTGTGGAAGGAAAAACAAACGTAATATCTCTTTCTTCAGGTCAGCCTTCCATTATTCTT CCCCTTTTCCTTATATTTAACTAACTTCATCCTCAGAAAAATCCCCTCTGTCACCTCCCC CCGGCCAGGAGAGTTACAGAGGCATGGACAGAACACTGTTCACCTAAGCCAGGAAGGCC [C,T]

 $\tt CTGGTGCCCACGCAGCCAGAGCAGGAGGCAGGCCCTCAGAAAGTCTCCTGGCCATCAGCC$ TGGCCTGGGTAGGGGCTCCCTCCTAAGTTTCCTGCCAGACTGAGGCTACGTATGACCATT AAAAGCTGCTGATGTTAAAGAGGGATTCAGAAAAGTTTGGGAGCCCCAGGCTTGGGGATG GGATCAGGATGGGGAAATATCCTGTTCTAAGGGAGAAGGGACCCTCTGGGCCCAGCTAGG

CATTTGGAAAGGTTGAGAATGCAGATGCTTCAGGGTCACAAATCTGACTGTTCTCTTCAA GGCTGGGTGGCATTGCTTGGTTCTGCCAAATCATCTTTGTAATTTCTGGTCCTGTTGATT ACAAAAAGAAGCCATTTCTGTATGGCTAATCCTTAATGGCTAGTCTGGTAAAGTTACCAA GTTCTGGGAGAGAGGCTGAGAGAGAGAGATGGATGAACAATGCCACCGAAACTCTGAGGGC

 ${\tt AGAATTCCCATTCTTCCCAACAGGGCTGTTTCCTGGAATAGAAAGAGAAGTTTGTATTAA}$  ${\tt ACCCATTGCCAGTTTAATGGGATTGCTTCTCTCTGGCCTATGAACTTGGTCAATAAAGAC}$ 

6122

6883

7641

AGCTTACATGCCTGTGTGCGTTCTCTGGGTGGGGCAGATTTTGGTATTTTCATATGAATA CCTATTTCTCCCTAACAATTTGCATTCCTATTTCATGCTTTTTCAGCTTTCTTCAAAAAG CAAGTCAGTATTTGGAATGTTACATCATACTAACCTGTAATACCTCTGTAATTCTAAATA

> GAATTCCCATTCTTCCCAACAGGGCTGTTTCCTGGAATAGAAAGAGAAGTTTGTATTAAA CCCATTGCCAGTTTAATGGGATTGCTTCTCTCTGGCCTATGAACTTGGTCAATAAAGACA GCTTACATGCCTGTGCGTTCTCTGGGTGGGGCAGATTTTGGTATTTTCATATGAATAC CTATTTCTCCCTAACAATTTGCATTCCTATTTCATGCTTTTTCAGCTTTCTTCAAAAAGC AAGTCAGTATTTGGAATGTTACATCATACTAACCTGTAATACCTCTGTAATTCTAAATAC

TATTAGCTTATTTTAGAACACCTGAAAATCCTGTGGTTTTCACAAGGAGGTAGACAATCT
AGTGGAGGTCCTTCAGCATTGAGAAAAGCAAAATCTGCCTATCTAAACAAAGAATCCAAA
CTCCCACTCTAGATGTAAGTGTGCCATAATATAAGGAACCAAACAGTTGCCCTGGGGGCA
GGATGCCTGGGTTCCAGTTTAGGCCTAGCCACTGATTTGTCCTTGAACCTGGGTGGATTC
GTCCACCTTCTGGTCTTCTGGTGTCCTATCTATGCGGCAGCCAGGTTAGCACCAGGTTCT
[C,T]

TGAAAATCCTGTGGTTTTCACAAGGAGGTAGACAATCTAGTGGAGGTCCTTCAGCATTGA GAAAAGCAAAATCTGCCTATCTAAACAAAGAATCCAAACTCCCACTCTAGATGTAAGTGT GCCATAATATAAGGAACCAAACAGTTGCCCTGGGGGCAGGATGCCTGGGTTCCAGTTTAG GCCTAGCCACTGATTTGTCCTTGAACCTGGGTGGATTCGTCCACCTTCTGGTCTTCTGGT GTCCTATCTATGCGGCAGCCAGGTTAGCACCAGGTTCTCCTGACTGGGGGAATGTCTGTT [G, A]

GCAGCAGGTGGGAGTTAAGAGAATAGATGTCGTGGGTCTACGTGCCTGACTTGGAATTTC
AGTTTTGCCACTTGTCTGCCACATGGCCTTGGCAGAGTCCTTAACCTCTCTGTGACCCCA
TCTCCTCTTTCATCTGATTGAGGGATAATCATTGCCCCCATCATGGAGTAGAAAAAGGAG
GGTTATGAGTTAATACCTGTGAAGTGCTTAGAACAGTGCCTGACACATCGTAATTGCTAT
ATAAGTGTTAACCAAATAGATAGTCTCTATTTGATTATTAGACAGATAATCAAAATTGAT

CTAGTGGTAGACAGACTGAGCTAAACTTTACAAACAAGCTGCCCAGGAGTATTTCAGTAG
TTGGCCTGGCTCATGTGTTTTCCTGTTTCCAGAGTTTTCCTGTTTCCAGATACAATCTTA
CAGGAAATATAAACACAAACCAGATAAAACCAGTGGCAACTCCAGGCCAAGCTCCAGGCT
TGGATCTTGGGCCTCCTGAAACACACCCAGAAACCAGCAGTCTTGGTGCATCCTCTTAT
GAACTGATTTGGCGCTTGCCAAAATCACAGTTGAAATGAATATATTTTATTTTAATGCTA

CCATTAGTACCAAAACATAAAACATAATTGATCTTAGATTACAAAGCAGATTAAAAGTTA
AATACCAGATTTTGTGGCTTATGTATTTCATAACTCCAAGAGTTGACATCTGTACATTAA
CTAGAATAGATTTGGATTATCTTGCTGTTTTTCGTTTATGTGAGCTAGGAGACATGGAAA
GGGAGAAAAGTAGACCTTGCTCTGTGTGTTTTACTCTGTGAGCAATGTTTGATAGTAGATA
AGTAGGACAAAATTAATGAGAATAAGAAGCAATGTCTTTCTAGTTCTAGCTTAAATTTCT

FIGURE 3, page 116 of 188

9796

9868

9626 ATCTGGTTATGTTTCATAATCAGAATACTGAAATTATGGTTGGACTGTGTTCACAGTGGA
AAACTTTTTCCAAAAAAGTACAGCTTATTGGACAAGTAAGATAGTCTGTATCCTCATTTC
CTCAGCACAATGCTTAGCACATGATTTGGACTTGAATATTTGTTGTAGCTGATCCTTAGT
TTTTCATCCATGTGATTATTTGATTACCTTGAATTGCTCACTTCTTGTCTTTTAGGACT
GTATACAGTAATGTTATCAAGTGAGCCTCAGGAAACACCTCAAAGGTTATTGAAATTCTG

TCTGGTTATGTTTCATAATCAGAATACTGAAATTATGGTTGGACTGTGTTCACAGTGGAA
AACTTTTTCCAAAAAAGTACAGCTTATTGGACAAGTAAGATAGTCTGTATCCTCATTTCC
TCAGCACAATGCTTAGCACATGATTTGGACTTGAATATTTGTTGTAGCTGATCCTTAGTT
TTTTCATCCATGTGATTATTTGATTACCTTGAATTGCTCACTTCTTTTTAGGACTG
TATACAGTAATGTTATCAAGTGAGCCTCAGGAAACACCCTCAAAGGTTATTGAAATTCTGT

AGTTCAAGCGATTCTCCTGCCCCAGCCTCCTGAGTAGCTGGAATTACAGGTGCCTGCTAC
CACGCCCAGCTAATTTTTGTATGTTTAGTAGAGACCGGGTTTCACCATGTTGGCCAGACT
GGTCTCAAACTCCTGACCTCAAGTGATCCATCTACCTCCGCCTACCAAAGTGCTGGGATT
ACAGGTTGTGAGCCACTGCGCCCAGCCATAATCATAGTTTCTCGAGCACTAATTGTGTGC
CTAGCCCCAAATGCTTTCTCAGGAAACTAAGGCGTGGCTATATGGCAGCCTAATAGAGGT

10209 GAATTACAGGTGCCTGCTACCACGCCCAGCTAATTTTTGTATGTTTAGTAGAGACCGGGT
TTCACCATGTTGGCCAGACTGGTCTCAAACTCCTGACCTCAAGTGATCCATCTACCTCCG

12230

CCTACCAAAGTGCTGGGATTACAGGTTGTGAGCCACTGCGCCCAGCCATAATCATAGTTT CTCGAGCACTAATTGTGTGCCTAGCCCCAAATGCTTTCTCAGGAAACTAAGGCGTGGCTA TATGGCAGCCTAATAGAGGTGACCCACCTGCCTCACCCTGGTTTGTTCTTATAGATGTAA

GGTAGGTGGCATTTCAAATGGGTTTCCACGTAACAGCATTTATAGAGTTCTTACTCTATG CCTGACACTAACTCCTTCAATCCTCACAAAAGCCTTTCGAGTTACATATTATTGCCATTT TAGAAATAAGTAAACTAAGGCTCAGAAGTAATATAACCTCTCCAAGGTAGAACAGAAGTT TGGTGCCAGGATTTAAACCCAGGCTTATCTGATTCTGGGGAACACATACTAACTCACTGT GACTTATTATATCCATCTCATAATGTTTTATTCTCAGCATTTGTCATTTCTAACAGAC

10311 GTGATCCATCTACCTCCGCCTACCAAAGTGCTGGGATTACAGGTTGTGAGCCACTGCGCC
CAGCCATAATCATAGTTTCTCGAGCACTAATTGTGTGCCCCAAATGCTTTCTCAG
GAAACTAAGGCGTGGCTATATGGCAGCCTAATAGAGGTGACCCACCTGCCTCACCCTGGT
TTGTTCTTATAGATGTAATGGTAGGTGGCATTTCAAATGGGTTTCCACGTAACAGCATTT
ATAGAGTTCTTACTCTATGCCTGACACTAACTCCTTCAATCCTCACAAAAGCCTTTCGAG
[T.G]

TCACTTAAATCCTACACATATATTGTTGAATATTTAATAGCAAAGCAAACAGACAAACAC ACAGGTAAGCTTAGTCTTCTTACTATTGGGGCTCATCGGCCCACTGTTTTAAACCACTTA TTTCAAATAAAAGTATCAAGTCAATTAAGGTGGGATTTAGCTGGAGGTAAATTGAAGGTA AGTTAATATCAACCCAGGGCCTCTTTATCTTAGCTGTTAACACCCTAATTCTTTGTGTGC CAACAAGAAGGAGCAGATGCTGGTCATTGGGAGGAAGTAACGCTTTTTTGGGGGTTGTTAT [C,T]

GTGGATGGTTTTCCCCAGCAAATCTGTGAGCAGCCTGCAGGCCGGACAGGCTTGCATCCT
AATATCCAAGATAGTCCTTGCGTGTTATAGTTTCTGGGTAGTTTATTATTTTGAACTGTAG
CTATTAATGTATCGATAACTCACAGTCCAAACCATATTAAACTCCTCTAGCAGTTTCTGC
AGACAGTCTTATTTCCTGGAAGAATCAAAACCAGCAGAGTTTCCTGAGACTCTAAATAAG
TGAAAAACCTTTTTCAGGAACCAGATATTAAAATGTTTCTGCATTTCTTCCCAGTAGTAG

[G,-T]
ACAGGCTTGCATCCTAATATCCAAGATAGTCCTTGCGTGTTATAGTTTCTGGGTAGTTTA
TTATTTGAACTGTAGCTATTAATGTATCGATAACTCACAGTCCAAACCATATTAAACTCC
TCTAGCAGTTTCTGCAGACAGTCTTATTTCCTGGAAGAATCAAAACCAGCAGAGTTTCCT
GAGACTCTAAATAAGTGAAAAACCTTTTTCAGGAACCAGATATTAAAATGTTTCTGCATT
TCTTCCCAGTAGTAGTACTTCACACAAATACTCATTGACTTAAGATTTTTAAAGTACTTA

AGGCTTGCATCCTAATATCCAAGATAGTCCTTGCGTGTTATAGTTTCTGGGTAGTTTATT
ATTTGAACTGTAGCTATTAATGTATCGATAACTCACAGTCCAAACCATATTAAACTCCTC
TAGCAGTTTCTGCAGACAGTCTTATTTCCTGGAAGAATCAAAACCAGCAGAGTTTCCTGA
GACTCTAAATAAGTGAAAAACCTTTTTCAGGAACCAGATATTAAAATGTTTCTGCATTTC
TTCCCAGTAGTAGTACTTCACACAAATACTCATTGACTTAAGATTTTAAAGTACTTAGA

14508 TGACCTGCCTTCAGCATGCTCAGAACACTGACATTAGCCTACACTTAGGGCAAAATCATC
TAACACAAAGCCTATTTTATAATAAAATGTTGAATATCTTATGTAATTTATTGAATACTG
TACTGAAAGTGACAAACAGAAGGGATGTATGGGCACTTAAAAGTACGATTTCTACTGAAT
GTGTATCATTTTCATACTATGCTCATGTTGAAAAATCCTAAGTCAAACCAAACCTAAGTC
AGGGACTGTCTGTACACTGGTCAAGATAAATATAGTAGTAAAATCAATATTGATAGAATT
[C. T]

TGTATTTGAGGGGGAACCAAGGAACCAGGAAGGGGTGAGAAGTGATATGGTAGCAGCCTC CAGAGAGCATACCTGCTTTTGAGAAATAGGCATTTTGTGGGAGCCCCCCACTTTTGGGGCC TGGGTGCTGCAGTGGCCGCCCCCCACTTTTGCAGCCTGGGTGCTGTGGCGGAGCCTCC CCTTTTGGGGCTAGGGTGCTGCCATTGGAGCCACCCCATTTTTGGGGCCTGGGTGCTATG GTGGGAGCCTCCCACTTTTTGGGGCCTGGGTGCTATG

 $\tt GCCCCCCACTTTTGCAGCCTGGGTGCTGTGGCGGGAGCCTCCCCTTTTGGGGCTAGGGTGCCATTGGAGCCACCCCATTTTTGGGGCCTGGGTGCTATGGTGGAGCCTCCCACTT$ 

17065

17442

16272 TATAGACGTTATCAGTACATTTATAATTTTCAAGGCAAATGATGGTGGCAGAACCTCCCA
AGGTCTCAGGGGCATTGGGATTAACCCATTCCCAATTGCAGAATGGGGTGTGCTGTAACC
TGTGCCAGCACCTCTTGAGATGCAATGTGCTTGTGAACGGTCTGGGATCTTGTTAAAATG
CAGATTCTAATGCAGCAAATCTGAGGTGGGTCCCAAGATTCTGAGCTCCAGGTGATGCTG
ATACTTCAGATCCTGGGGGACACTGGGAAGAAAAGCCTTAGAGGAGCCCCCTGCCTCCTC
[C.G]

18283

- 17475 GTGGGTTGTTGCTTTCCCATTTGGATGGAAGTAAATGTCGTCCTTGTGTCAGGCA
  GGCTCTAACAAGGCCCAATGAGTGGGCTCTACTCTTCAGGCCTGCCAAGCCAGAGCCATT
  GTCCTTCTGCCTCCATGGCTGTGGTCTCTGCCACTGGCTCCTGGGCTTTGTCTTGTCACC
  AGCCACCTGGGAGGTGGAGCATACTGGAACTAGACATGGAGGATGTGGGAGGATATGGGC
  CCAGTGCTCTGAGCAGGCGACACCGAGAACACTGTGGTGGTGGCACATTGGTGTTG

  [C. G.]

CCTGTCTACCTGCTTGATGTTGTGTCTAGACACTGAGCCCTTGGCTTTTCTTCCTTTGTT CCAAGAGGGCCTTGGGTGCAAATCAAAACCCTTCTGGAGGGCTTAGCTGGAGACGGAAGC TGCCATTGTTGCTTTTGTTAAAATACTTTGAAGGTTAAGGTTTTGTGTTATTTGGGATCT AGATTGAAAACTGTGTGTATTTTTCTTTTTAAGAGTTGAGAATGGAAGTCATATTCTATT TCTTGCAAAAGCCCTTTCCAGAGAATCAGTGAGACCACCAGTGAGTCTGTGATGCAGCTG

- TGTTTTACTCCTGCCAGGAGTGTGTGCTCTTGGCAGAGGTGAAGAATGAGTGTGAGTGGC
  CTGCGGGGCTGAGGTCTTCCCTCAATCACAGGGTGAGTTTCAGTTTGATCTTGCACAGGG
  GTTGGGGTTGGGAGAGCTGGTGCTGGTGCTTGCTTTGGTTAGGAGACTCTGAGAGCATTG
  TCTTCCCTTGGTCGGTGGGACCGGGCTAAGGTAGCCCCTGTCTACCTGCTTGATGTTGTG
  TCTAGACACTGAGCCCTTGGCTTTTCTTCCTTTGTTCCAAGAGGGCCTTGGGTGCAAATC
  [A.G]
  - AAACCCTTCTGGAGGGCTTAGCTGGAGACGGAAGCTGCCATTGTTGCTTTTGTTAAAATA CTTTGAAGGTTAAGGTTTTGTGTTATTTGGGATCTAGATTGAAAACTGTGTGTATTTTTC TTTTTAAGAGTTGAGAATGGAAGTCATATTCTATTTCTTGCAAAAGCCCTTTCCAGAGAA TCAGTGAGACCACCAGTGAGTCTGTGATGCAGCTGACAGAAGCGCCTCCCCACCTGTGAG GGAGTTGGCCTAGCCTCAGAGGTGACAGACGCCTCCAGCACAACCCACGCTTCAGCCCCA
- TAAAATACTTTGAAGGTTAAGGTTTTGTGTTATTTGGGATCTAGATTGAAAACTGTGTGT
  ATTTTTCTTTTTAAGAGTTGAGAATGGAAGTCATATTCTATTTCTTTGCAAAAGCCCTTTC
  CAGAGAATCAGTGAGACCACCAGTGAGTCTGTGATGCAGCAGAAGCGCCTCCCCAC
  CTGTGAGGGAGTTGGCCTAGCCTCAGAGGTGACAGACCCTCCAGCACAACCCACGCTTC
  AGCCCCAGCCAGGGGGCCTGGGCCCCTGAAGCATGGCCTGCTTTTTCAGAGGACGTCTCTT
  [C,-]
- CCCTGCTCAGGCTGAAAGTCCTCAGTGCTTCTGGTGGCCTGCTTGGCTGGTGGCAGGGCT AGCTGCTGGTATAGGCAGGCTGATGTGCACGGCTCTCTAGGCTCCTGGGAGAAATGGCTG CTGTCCTCCCCCACCATAGAACCCTGTTAACTCTCACCTTGTGTGTTTCATGTTGCC ACTTTCTCCTCCAGGATGTTTGTTTTTAAAACCCCACAATTGGTTTTTCCTGTTGGGG CTAAATCACTTTGCCTCTTGCCTGTGCTGCCGCCTAAGGCATCCCCGGCCCTGCCTTTGC
- TGGGCCCCTGAAGCATGGCCTGCTTTTTCAGAGGACGTCTCTTCCCCTGCTCAGGCTGAA
  AGTCCTCAGTGCTTCTGGTGGCCTGCTTGGCTGGCAGGGCTAGCTGCTGGTATAGGC
  AGGCTGATGTGCACGGCTCTCTAGGCTCCTGGGAGAAATGGCTGCTGTCCTCCCCCA
  CCATAGAACCCTGTTAACTCTCACCTTGTGTTTCATGTTGCCACTTTCTCCTCCAGGA
  TGTTTGTTGTTTTAAAACCCCACAATTGGTTTTCCTGTTGGGGCTAAATCACTTTGCCT

CTCCCCCACCATAGAACCCTGTTAACTCTCACCTTGTGTTTTCATGTTGCCACTTTCTC CTCCAGGATGTTTGTTGTTTTAAAACCCCACAATTGGTTTTTCCTGTTGGGGCTAAATCA CTTTGCCTCTTGCCTGTGCCGCCCTAAGGCATCCCCGGCCCTGCCTTTGCTTCAAGTG

CTAAGGGAATCGCCCTCTCCAGCCTTTAGGTTTGCCACGAGTGAAATACAGGCAATATAA CAATACCATTTTCAGGGTTGTCATGAGCACTAAGATGGTACATGAGGTGCCCGGCACAGA TTGCCTCCACAGAACACAGACAGAGCTGTGGTTTTGTGTTTTGTCATCCCAGAACCTC AGTCAGTGGCTGTCAAGAAGACTGTGCGCCCTTCCTGAGCCACAGTCTGATGTGTCAACT

18616 ACCCCACAATTGGTTTTTCCTGTTGGGGCTAAATCACTTTGCCTCTTGCCTGTGCTGCCG 

> GGCTAAAATCTGTTTGTTCCCTAGCCAGCTTTGGAGCTAAGGGAATCGCCCTCTCCAGCC TTTAGGTTTGCCACGAGTGAAATACAGGCAATATAACAATACCATTTTCAGGGTTGTCAT GAGCACTAAGATGGTACATGAGGTGCCCGGCACAGATTGCCTCCACAGAACACAACAGAC TGCGCCCTTCCTGAGCCACAGTCTGATGTGTCAACTTCAGCTGCTGCAGTTCTTGTCACT

> GGCTGAGGCAGGAGATCGCTTAAACCCAGGAGGCGGAGGTTGCAGTGAGCCAAGATCAT ACCACTGCACTCCAGCCTGGGCAACAGAGTGAGACTGTCTCAATAAAAACAAAGTAGGCT TCTCTGCTTCATGCTTGAGTGTTCATGCCTGGCAGTATGGCTTAGGATCATATCTTTGTG CTGGGCTGGCCTGGCCAATCGGGACATCTGGTTGACTTAAATCTTAGTAATCAACAGACA [C, T]

> AGGAGCAATCAGCTGCTTCAGAATGGATTCCAAGTTAGCAGAAGGAATCACCTACATTAG TTAATGATCTTTTTCTAGTCTGTATATAATGTCGAAATTAAGATCTCAACTTTAGCCTAA

> TGTGTGTAGAGATCACACGGTAACAGAGCAAGCAAGGTGAGAGTGAGAGGTTCCAGGCTC TGGCACCAAGCCACTCCTAAGGGATCCAACTCCATGACTCAGACACCTCCATTAGGCCTC ACCCCAACACTGAGGGTCAAATTTTGGCATTAGGTTTGGCGGGGGACAAACATCCAAAC CATAGCACCAGTTGTCCAGTAATTCTTAGGAACAGAAACACTTTTATGACCATGCTGACT

> TCTGAATTTATTCAAAATGACTGTTCTTGTGTTACAAGTAAAGATGATCATGAACTGCAC TCACAAACAGCTTTAAGAATGTGGTGAGCACAATGGTGAGCGGCAAATGCAGCACAAAGC ATATTTAGTTAGCACAGGCCAAACCGTGGGTGACGTGAGAATTTAGCACAGAAATGC

GACAAACATCCAAACCATAGCACCAGTTGTCCAGTAATTCTTAGGAACAGAAACACTTTT ATGACCATGCTGACTAGAACAAAATTATCTGTGATTCGTTATCCATTCCAGATGAGAATG GTATATATATTTAAATCTGAATTTATTCAAAATGACTGTTCTTGTGTTACAAGTAAAGA  $\tt TGATCATGAACTGCACTGTACAAGAAATTCTTATCTGATATCTCACCGTGGGATTATGAG$ AAAGAAGAAGAATCATCACAAACAGCTTTAAGAATGTGGTGAGCACAATGGTGAGCGGC

> AATGCAGCACAAAGCATATTTAGTTAGCAGCACAGGCCAAACCGTGGGTGACGTGAGAAT TTAGCACAGAATGCGCTGGGTGGAAGGTGGGATTGGGAAGGACCTCTTGGAGGCAGAGG TACTTGGAGAGGAAGACCAGGATCTGGGTGGGCAGAGTATTAGAGTATTTAAGGAGGAGT  $\verb|AACCCTCAGAGTCTAGGTGTAGGGTGGAATAGGGCCATATCTGTCAGGAGGGGAAAACGG|$ AACAGATTGGTTAAGGTGGGTATCTGGGTCTGTGAGCCAGGGGATTCATCAGGGACGCTT

TTTGAGTTCTGTCTGTATCCTCAGGTTCTCAAGGGGCCAGAGCCTTATTGGCTCAGCTTGG GGAAATATCTTCCCAGATCCATTTGCCTGTGGCCAGGAGGCAGGTCCCAGTGGGTGAGGG GCCCTCCAGGGGCTCTGAGGGGAGGATGTGGGTGCAGCGCTGGGTGGCTCTTGTGAAGGA CTCTCAGCAAGCACACAGAGAAACGTGAGCCAAGTTTGTATAAACATGGGGCATTTTATG

22023

20491

22248

23930

24159

23789 GCCACAAGTTGGGTGATGGTGCCTAATGGGGGTGTTTAGGTAACGAAGGCTCCATGCTCC
ATCCTCAGGAATGCCGATTACAGAAGGGCTTGAGACTGGGAATTGGATCTCTTGCTCTCT
GTCTTTGACCTTTCACCATGGGAGTATGCAGCAAGGAGGCCTTTGCAAAATGCCAGCCCC
TCAATCTTGGACTTCCCAGACTCCAGAACTGTGAGCCAATACATTTCTGTTCATTATAAA
GTACCCAGTCTCAGGTATTCTGTTATAGCAGCAGAAAATGGACTAAGGCAGCCTGTGTCC
[C.A]

GGTGATGGTGCCTAATGGGGGTGTTTAGGTAACGAAGGCTCCATGCTCCATCCTCAGGAA TGCCGATTACAGAAGGGCTTGAGACTGGGAATTGGATCTCTTGCTCTTTGACCT TTCACCATGGGAGTATGCAGCAAGGAGGCCTTTGCAAAATGCCAGCCCCTCAATCTTGGA CTTCCCAGACTCCAGAACTGTGAGCCAATACATTTCTGTTCATTATAAAGTACCCAGTCT CAGGTATTCTGTTATAGCAGCAGAAAATGGACTAAGGCAGCCTGTGTCCCCGCCTGACCC

GAGTATGCAGCAAGGAGGCCTTTGCAAAATGCCAGCCCCTCAATCTTGGACTTCCCAGAC
TCCAGAACTGTGAGCCAATACATTTCTGTTCATTATAAAGTACCCAGTCTCAGGTATTCT
GTTATAGCAGCAGAAAATGGACTAAGGCAGCCTGTGTCCCCGCCTGACCCTTCAAACTCA
CTAAAGGGGAGCAGGCTTTGGTGCTCAGTTGTGGCCCTGTGACTCCAGAGATACATATCC
TGTGGCTGTAGGGAGCTCCTTAGTGCAGCTGCTTTGAGGTTTAGCTGGAATCATTCTTGG
[T.A]

TTTTTGTTGTGATATCTCTTTCTGTGTAGCCAAGAGTTAGAGAGGGCTAGGGAACCAGGG ACATCTCTAGGGTGAGGATGAAAGGGGGCAGTGTCATCTGGAGCTCTGGGCTGGAAGTCT GAATGGCTCCTCTTATCCTTCTCTTATAAGAATAAAGAGGAAGATCATGCCACTGCACTC TAGCCTGGTGACAGAGCGACAGAGCCAAGACTGTGTCTCAAAT

 $\label{eq:gaggcttctagtcctagtcctagtcctactcttccacctgcatccactagtctct} \\ \textit{ggatactgagctggcatcgctctcatggaaggcgagtgtgggcctgcccaagccatcct} \\ \textit{ctggctccactgacttgctggaagaaaactggcaccactgtttacattagtttctgtg} \\$ 

 $\tt CCTGTGACACCCAGCTGATACCCTCTGTTACGAAGGGACACCCTTCCCCATATGTGGGAGTAACAGGGCACCCTCATTGGAGAACCCTGCCAGCCCACTGCCAGCGCTCCAGAGGTTTGTCT$ 

26508

GATGAGGAAACTGAAGCTCCTGGAGGTTAATGCCATGTATATGGTGACCCAGTGCCGGGGGTCTGGGGTGCAGGTGAGCCCCATTCTTGTGTCTCGTGCACTGCAAGCCCAGTGCCCCATTCTCCATGTCACCGGGAGGCTTCTCAGTCCTGGCTGCTTGAGCCTACTCTTCCCACCTGCATCCAGTGAGGTTCTGGATACTGAGCTGGCATCGGTCCTCATGGAAGGCGAGTGTGGGCCTGCCCCAAGCCATCCTCTGGCTCCACTGACTTGCTGGGAAGAAACTGGCACCACTGTTTACA

TAGTTTCTGTGCCTGTGACACCCAGCTGATACCCTCTGTTACGAAGGGACACCCTTCCCC
ATATGTGGGAGTAACAGGGCACCCTCATTGGAGAACCCTGCCAGCCCACTGGCACCTGCA
GAGGTTTGTCTGAGGCAGCTGGGCACCATGGTGCAGACCACTGGCCAGCCCACTGGGGC
AAGAGTTTGTAAGGTGTTAAGATGCATGATTAACCCAGTGGTTCCCAAACTTGTCCATAC
ATTAGAACCACTGGGGTGGCTTCAAAAAAATGCTGATGCCTGTTCCCACCCCCAGAGATT

26570

CTGGGGTGCAGGTGAGCCCCTTTGTGTCTCGTGCACTGCAAGCCCAGTGGCCCCATTCTC
CATGTCACCGGGAGGCTTCTCAGTCCTGGCTGCTTGAGCCTACTCTTCCCACCTGCATCC
AGTGAGTTCTGGATACTGAGCTGGCATCGGTCCTCATGGAAGGCGAGTGTGGGCCTGCCC
AAGCCATCCTCTGGCTCCACTGACTTGCTGGGAAGAGAAACTGGCACCACTGTTTACATT
AGTTTCTGTGCCTGTGACACCCAGCTGATACCCTCTGTTACGAAGGGACACCCTTCCCCA
[T.A]

ATGTGGGAGTAACAGGGCACCTCATTGGAGAACCCTGCCAGCCCACTGGCACCTGCAGA GGTTTGTCTGAGGCAGCTGGGCACCATGGTGCAGAGCACTGGCCAGCCCACTGGGGCAA GAGTTTGTAAGGTGTTAAGATGCATGATTAACCCAGTGGTTCCCAAACTTGTCCATACAT TAGAACCACTGGGGTGGCTTCAAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTGT GATTTAATTGGTTTAGGGTATGGCCTATACTCTGGATTATTTAAATGTCCCCATTTGAGA

26582

TGAGCCCCTTTGTGTCTCGTGCACTGCAAGCCCAGTGGCCCCATTCTCCATGTCACCGGG AGGCTTCTCAGTCCTGGCTGCTTGAGCCTACTCTTCCCACCTGCATCCAGTGAGTTCTGG ATACTGAGCTGGCATCGGTCCTCATGGAAGGCGAGTGTGGGCCTGCCCAAGCCATCCTCT GGCTCCACTGACTTGCTGGGAAGAGAAACTGGCACCACTGTTTACATTAGTTTCTGTGCC TGTGACACCCAGCTGATACCCTCTGTTACGAAGGGACACCCTTCCCCATATGTGGGAGTA

CAGGGCACCCTCATTGGAGAACCCTGCCAGCCCACTGGCACCTGCAGAGGTTTGTCTGAG GCAGCTGGGCACCATGGTGCAGAGCACTGGCCAGGCCCACTGGGGCAAGAGTTTGTAAGG TGTTAAGATGCATGATTAACCCAGTGGTTCCCAAACTTGTCCATACATTAGAACCACTGG GGTGGCTTCAAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTGTGATTTAATTGGT TTAGGGTATGGCCTATACTCTGGATTATTTAAATGTCCCCATTTGAGAACTGCTGGGTTA

26693

GAGTTCTGGATACTGAGCTGGCATCGGTCCTCATGGAAGGCGAGTGTGGGCCTGCCCAAG CCATCCTCTGGCTCCACTGACTTGCTGGGAAGAAACTGGCACCACTGTTTACATTAGT TTCTGTGCCTGTGACACCCAGCTGATACCCTCTGTTACGAAGGGACACCCTTCCCCATAT GTGGGAGTAACAGGGCACCCTCATTGGAGAACCCTGCCAGCCCACTGGCACCTGCAGAGG TTTGTCTGAGGCAGCTGGGCACCATGGTGCAGAGCACTGGCCACTGGGCAAGA

TTTGTAAGGTGTTAAGATGCATGATTAACCCAGTGGTTCCCAAACTTGTCCATACATTAG
AACCACTGGGGTGGCTTCAAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTGTGAT
TTAATTGGTTTAGGGTATGGCCTATACTCTGGATTATTTAAATGTCCCCATTTGAGAACT
GCTGGGTTAGCCTATGAGAGAAGTGTGGGCAAAATGCCCACTTCTGTCCTCATTGTCTTT
CTCAGCACCTACTCCTCAAGGGAAATAACTGATTCAGGCTGCAGGGGACAAAGCTTCCCT

26884

AGGGCACCCTCATTGGAGAACCCTGCCAGCCCACTGGCACCTGCAGAGGTTTGTCTGAGG CAGCTGGGCACCATGGTGCAGAGCACTGGCCAGGCCCACTGGGGCAAGAGTTTGTAAGGT GTTAAGATGCATGATTAACCCAGTGGTTCCCAAACTTGTCCATACATTAGAACCACTGGG GTGGCTTCAAAAAATGCTGATGCCTGTGTCCCACCCCCAGAGATTGTGATTTAATTGGTT TAGGGTATGGCCTATACTCTGGATTATTTAAATGTCCCCATTTGAGAACTGCTGGGTTAG [C,T]

CTATGAGAGAAGTGTGGGCAAAATGCCCACTTCTGTCCTCATTGTCTTTCTCAGCACCTA
CTCCTCAAGGGAAATAACTGATTCAGGCTGCAGGGGACAAAGCTTCCCTGTGCCTTTGCC
CAGGCACAAGGCCCCTCCTGGGAGGTGTGGGTGGCTAAGGCTGGCGTGATTCCTGATGTG
GCACGTGTGGGGCAGGTATTTCTCTACTTGAGGAGTGACATTGCATGCCGTCTGCATGCT
CCCTCATTCCTTTCTCACGACAATCTTATAGGTAGCACCTTTCAATCTCCTCTTCAGACG

TCCTGGGAGGTGTGGGTGGCTAAGGCTGGCGTGATTCCTGATGTGGCACGTGTGGGGCAG
GTATTTCTCTACTTGAGGAGTGACATTGCATGCCGTCTGCATGCTCCCTCATTCCTTCT
CACGACAATCTTATAGGTAGCACCTTTCAATCTCCTCTTCAGACGAGAAACTGAAGTTC
ATGGTGCATCCTACGTGAGGAACAGAAAGAGGACAGGGAATAAAACTGGATTTTCCTTGG
GATTCTCAGATGGGCCAGGTCCTAAGTAAACACCAATCTAGCTCTGCTGACCACTGGGGG

27339 CTAAGGCTGGCGTGATTCCTGATGTGGCACGTGTGGGGCAGGTATTTCTCTACTTGAGGA
GTGACATTGCATGCCGTCTGCATGCTCCCTCATTCCTTTCTCACGACAATCTTATAGGTA
GCACCTTTCAATCTCCTCTTCAGACGAGGAAACTGAAGTTCATGGTGCATCCTACGTGAG
GAACAGAAAGAGGACAGGGAATAAAACTGGATTTTCCTTGGGATTCTCAGATGGGCCAGG
TCCTAAGTAAACACCAATCTAGCTCTGCTGACCACTGGGGGCCTTTCTTCCTTTTGACTC
[A, T]

27542 AAACTGGATTTTCCTTGGGATTCTCAGATGGGCCAGGTCCTAAGTAAACACCAATCTAGC
TCTGCTGACCACTGGGGGCCTTTCTTCCTTTTGACTCTGTTGTAAAAGAAAATTGAAAAA
CGGTCTTATTGTGCCTTAAAGCCTTTTTAATTAAATATAACTCATTTAATTTAAACTACT
TTAAGTTCCATTTTTAATATAAGTGTTATAGTGGTACAATGAAAGTGCCTTCTAATCAAA
GTGTGTATGGGGATTTACCTCCCTGTACAAAAAGCCTGTGGGAGCCCAAACCAATGATTT
[G, A]

TTCAGACAGCAATCCAAAATCACCAGACCCTGAGTGAGGCACACATGGTGGAGGTTCATG
AGTGTGGGTAGGAGTCGGAAGTTCCTCTGGGGGCTGTGCAGATTGAAGGAGGCGGGTGTG
GAGAGGGCTTAGCATGGAGCCTGGCGTGGGTAATTGCTTAGTAAATGGAAGCTGCTACTG
GGATGCTACTGCCATCCCTAGGACCTCCGCTGCTTCCCCTGCTAGTTCTTACTGCTGGTG
CCACAGCTACAAAGTAGGGAGATGACAGTGAAGAGAGAGGCTCCCCTGGTGGGCAGGAGG

CTGCCCCAGCCGGCCCTTTCCCAGCTTGCTCACCTTCTCAGAGGCTCCAGCCTGATCAA
TCACCGCTGGCCCCACCATGACTCTGGCACATTTTGCATCTTTATGTCAGACCGTCTGTA
TCTGTGACTCCCTAATTCTGTGCAAAACAAGAATGAAAAATAGACTCAGACATGAGGAC
TGTACTGGAGGGCACACTTTCTTCCTTTTTTTGTCTTTTAATTTTCTAGGCACAGGTTATT
CTAAACCTCATCTTGGGCTTGCAGTTGGCAGAAAGAAAAGTAGCAGATTGGAATATCATG

33107

33671

35045

 ${\tt AAGGGATCTTCAAGTGTCCCTTTGGAGAAGAGGGTGTGCCTGACCTTAAGCACTGGCCACCTTTGGGTGTTTTCAGCTTATCCCAATCAGACGCCACTTGCACCCAGTCCTGCCCCAGCC} \\ [{\tt G,A}]$ 

> CCTCGATTAAGTGGCATTTCTCAAGAGCCAGCACCCCTTCGGTGTTTTTCATGAGCACTT GCAGCAAGCTCTGCATAACTGGAGGAGCAGGGGGTGTTTAGACCCTCCCCCAGAATATC CTGTTCTTTGCTGGATTATTCAGCTTGGCTTTCAAACTAGCCCCGGGTTTAGGGTTAATT CTCTCACCTTCTCTGGCTTTGAAGACCCAGACATGGTGTGCTGAGAAATCCAACAACTCA ATAGTTTTCCTTCTGCCTTTAACTCAGCCATATAAATGAGATAAAGTGTGCAAAACTCTT

> CTGTGTGCACAGTAAGTGGGAGCCAGCAGTGGAATACATGCTACATAAGGCGCCACTTTA
> TTTAGCTGTATTTTGTCAGTCCAAGTGAAGATTTTAATTGCAGAATAGTGTCTTGCTAGC
> AAAAATGAACCTGCTTAGAGTCAAGTTTTTAAAATTCAAGTGAATAAATGAAAAATTGTA
> AGAAAGATTGTTAAAGAAGCATTCATTTTAAGAACATCTCAGATATGAAAAACCTTAGAAC
> TTAGATGTCAGAATTTCAGTAGCGATGAATCCCATGGCAAAGCTTCCATCTCATCTGTAC

TGCAGAAAATAATTTCTTCCTTAGACAATGCATCCAGGGCCTTGGTGTCATTATGTCAAT
GAATTTCACTCCTTACATTTCTGCTACAGCTTTTGAGGGGTTGCTTTTTTAAGCACTGGA
AAGATGGATTCTTATTTAGCCTCAATAATTGAGGAAGCCGTTGAACTCATTTACCTCCCA
AAAATAATCTGATCGTCTCCCTCTCTTAGCTCTTTTCATGAATGGTAATGTTGTTGATGA
TGGTGGCACATGTTGGAGGACTGCCTGTGTGCTGGACACCATGCTAAGCATGGGACAAGC

AGTTGCAGTCTTTCCCTCAGTACATCTTTCTTCATCTGTAAATTAAAAGTGGGGTTTGTT
CCCTCTATTTAACAAACTTCTGATTACTCCTGGGTAATTTGTCTTATTTTAAAAATTTTT
ACTGGAGCATATCAAATATATAGTAAAGACACATATTCTGAGTGTAGCACTTGGTTAATA
TTTTGTAAGTGAACATATCTATGTGACCACCACCAAGATGATAATATAGAACATTTCCAG
CATCCCACAAACCATTCTGTGTCCCCCGGTCATTATCCTCGCAAAGGTTACTACTCATCT
[A,G]

CTCAGCATACGGCCAATTTTTATAAATCTCGAATGGACACTTGAAATGAAGTGCTATTTG
GTACAGTGTTTGATGTCTGTCAATTAGGTCAAGTTTTAAAATTATAGTGTTCAACTCTTC
TATATCCTTACTGATGCTTTTTTCCTCTACTTGTTCTATCAGTTAAAGACAGAGATTTTT
TAAATTTTCCAACCATTATTGTGGGTTAAAAAAAATTCTCCTCTTTAGTTCTTTGAGTTCTG
GCTTTGCATATATTTAGACTATGCTACTAGGTATGTACAAGTTTAGAATTGCTATATATT
[C,T]

## FIGURE 3, page 126 of 188

ATAGGTTTAAATATAAACCCATGTTTTCTCTGTTCTATATTCCTTTTCTCTTCTGCCTTT
CATGTCTTCTTTTGGATGAGACAGTTTTGGTTACTTCATTCCTTTTGGTGTCATAGCACTA
ATTTTGCCATTTTTGGGACAGTACTAGGACATTATAACACTTTAATCTCATTTGACCTCC
TGATCTTTTTTAAAAAAATCATATTACTATGTATTTTAGTTCTACAAATATTTTTATCTT
ACAGTGCATTATTGTTGTGTTAAGTAGCCGAAATGTATTTTTATGGTTTTTAATGCTT

TTGTTTATTTTTGTTTCAATAGGTTTTTGGAGAACAGGTGGTGTTTGGTTACAGGTTTTT
AGTGGTGATTTCGGAGATTTTGGTGCATCCATCACCTGAGCATTTTACAGTGTACCCAAT
GTGTAGTCTTTTATTCGATTCTAGTTTTATAATGAAATTCAGCATCTTTTCTCCTATTTT
CCTAAACATATTAGCCATAGTTATTCTAAAGCTTGTGCCTAAGAATTCTAAGATCTGGAT
AACATGTGGCTCTGTTTCTGTGGTCTGTTTTCTTGGATTTTAGCCATTCGATCCCATTTC
[G, A]

39404 ATTTATTTTAAAACTCAGTAAAATGTATATTGGTTTCATTAATAATAAAACATATCTC
AGGCTAAAAGCCAGCCTGTCACTTAATGGGGAAATGCTAAAGGTTTTCTTCTGAAAGCAA
AAGCCAAGACAAGGGTGCCCAGTATGAACACACACCCTAACATGGGTTGAGAATTGGTTA
AAGCTCTAAGGCAAGAGAAAACACCTGGAAGTATAGGAATTGGAAAGAAGAATAAGATA
ATTGCTGTTTGCAAATTACATAAATACTCAAATGGAAACCCCAAAAGAATCAATGGAAAA

CTATTACAAACAGTAAAATTTAACCAAGAAGCTGGTTATAAAAATAATATAAAAAATATT TTTAAATTGCCATCAAATATACAAACAAAAATCAGCTGGAAGAAATAATAAGAGAACATC CCATTTATGATAACAAAAGACATACAAAAAGAAATATCAAAATACGCACAAGGAAAAC

43522

44875

40395 TTTCATCTCTAATATTGCCTCCCCCTTCTGACAAGAGGATGCTAGACAAGAATGCTAAGG
TGTGAAAGACAATGCTATTACCTTAAAAAGCACTGTTGCTGAATTACCTTCTTGGCTGCG
GTGTTGAGGTGGTAGTCCCAGTTTGGTGTTTTCTCTTCTTTTTTAGTTGCTAGTATGG
ACTTTCAGCTTATTTTTAACCTTAGGCTTTTTATCCAAAACATGTCGTTTATGATGAATT
GGAGATACTTTATATTAGTTATGAAACTGCAATATGCATTTCTAGTCTTTCCCCCCATTA

42294 CTAGTCTCTAATAAGGGATGCCTTTTGTATGATTTGTGGAATCATTAACAATCATCTTTT
TATTACATGGATAGAATGAGATCAGAAACGAAAATGAGTTCCTGGTCTAGAATGTGG
CTTTGGTTTTACCCTTCACCACATCCTTCTCTGTGGTACTGTCTCCAAAGAGGGAGACAA
TCTAAAAGAAATTAGCAAATTCTATATTGACTACTAAATCTAACATTGCTTTGCCTCCTG
ATTAGTTCTTGTGTTATGCAACACAGCAAAAGACATAGAATGGCTATGTTATCAACATGC

TTGATACATGGATATTCATGCCTGGGACCTTGGTAACACAAACTTTTCACACTATATTGA GTCCAGCTGGTAGTGTGCTGCTGTCCATGGTGCTGGATCCCTAGGGTCATAGGATCTGGA TAATCTGACTCTAAGATGAACTTTCTGGCTTACATTCCCATTTGCCATTATCTTCGGCTT CGGACTCGATGTCCTCTGAACTATAGGACAATATGTAAAGCAAACTGCATTGTTTGAATA TCAAAACCAAATGGATGAAGGTTGATGGAGGTGGGAAGGAGGTTTCTTATGGAAAGTAGT

TCCTATTGTGCACTGATGTCTTTCTTGCTTGTTTCTGTCAAAGTTGAATGTTTGAGAGTT
CCTGAAATAGCCCAGTGCTGTAACGTCAATGCTTACAACCTGGCAGGAAGAAAAGGAGTG
GGACCTTGCCGGCTGGTTCTAAGTATTTTTAGGTCTGGGAATTCACTGACTCACTGACTT
GGGTTGTGGGGTTGTTAATCTTCTCCAGAACAGTGTACAAGTATAAAAAGAATAGAAGCA
CTATGGTGCTTCAGTAAACTATTTTTCTGTCAAAGAAAAGTAAGATATTGTCTAGCAATG
[A.G]

ACACCTGGGTTGGTTCCCAGCTCTGACTCGACCCCGGACTGAAAGAGGAACAGATGAGTA
ATAGCTGATTTTTCTGCACAGCTTACAAGGCCCAGGAGAGTCTAGAAAGTCTTCAGGTCT
AGAGAGGAAGCTCCCAGTCACAGAACCTGAGGAGGTTTCCTGTTTTGATTTGCCTTATTT
CAATACTGTACCTGACTCAGGAGCATCCCCTCCATTGAAGGTTTAGGGCCACAAATGGCT
AACCAACTGCAACTTCACATTATGTGACTTTTGGAAACTCTTGACTAAGTATGTGTTTG

ACTCACTGACTTGGGTTGTGGGGTTGTTAATCTTCTCCAGAACAGTGTACAAGTATAAAA AGAATAGAAGCACTATGGTGCTTCAGTAAACTATTTTTCTGTCAAAGAAAAGTAAGATAT TGTCTAGCAATGAACACCTGGGTTGGTTCCCAGCTCTGACTCGACCCCGGACTGAAAGAG GAACAGATGAGTAATAGCTGATTTTTCTGCACAGCTTACAAGGCCCAGGAGAGTCTAGAA AGTCTTCAGGTCTAGAGAGGAAGCTCCCAGTCACAGAACCTGAGGAGGTTTCCTGTTTTG [A,G]

TTTGCCTTATTTCAATACTGTACCTGACTCAGGAGCATCCCCTCCATTGAAGGTTTAGGG CCACAAATGGCTAACCAACTGCAACTTCACATTATGTGACTTTTTGGAAACTCTTGACTAA GTATGTGTGTTGAGAAGTGAGAGGGGCTAATGTTAGCAGTGGAAATCGAGTCCAAGCCAA ATCATAGTGGGAACTAGCGACAGTAGGGGCAAAGTGAATGCATTGTGTGCCTTAAACCTG TCCTCTGCCCTATTTCCCCCTCTCCCCTCCAGCCGTAGATGTCATGCAGTCTAGCTTTC

GGAGAAAATCCATTTCTCTGGTTTTAAGTCACTTAGTTTGTGGTTTATTATGGTGGCCCT
AGGACAGTAATACACTTGGAAAATGTTGGACTCAGTAAACTTTAGTTTTCATTGTTGTTG
ATGATGATGATATTTTGACTGGAGAATCTCTCATGATTTTTCATAGACAAAATGTCACTC
TCAACAGGGAATGTAATATGCAGCATTTTCCAAACTTGGTTTTCTGTGGGATTTAACAAA
ATTAATTGTGTTTTTTAACCATCTCAGGGCAGGCATTCCATGCAGTGCCTTTTGCAAA
[C, A]

49822

46024 CGAACACTTGAGTAAGCTGAGCAAATGGCTGGGATAATTCAGCCCTTGTCAGCCATCTCT
GAGGAGCATAGGGCGATCTGTAAGCTATTCCAGATGTCCGTGATTGTGCTGTGATTAGGG
GCTGCGAGTTTGGGGATGAGCACCAATGTCATGTTGCATTGCCACCTCCCAGCGCTGGC
TCCCGCACATGTTCCAGCCCTGTCCAGCCTGGCTTCTAGCAAGGCTGTGAGGGAA
CCCGGGAGAGGGGGGGTGCTGCTGTCTTCAGGGAAAAAAAGGGGGTGACCATCAC
[A.G]

TGCACACTCAGCATGGCTCTGGCTCCTTTGCAGTGCAGATCTCCTAAGCAAACATGACCT GCCAGTCCCGAGTGTGAAACTAGAGCCTCACTTTCTGAAAACCCGTGGAATCGGTCCCTA ATTGGCAGCTGCCTCCAATAGCCCCTTTATAGTTCTCTGCATCTGGGTGAACTTCAGCTA TCAAGAACTGCATTCTGTTTACCATTAATTTTGATTTTGTGTAGCAGATGTTTTCTGGAT CTCTCAGTTCCCTGCCTAATCTATCTTGGTATAATGTGAAGTGGCTGACTGTCTTCAATG

CAAACCTCATTAAGCTATTTGCCCCAGCATATTAATGTGCTATCCACCAGCCTCTGGGGT
TAATTATCTGTGAGTTAAAATCATTTGTTTCTGTCTCTTTTTATCTCATTGCTGCTTGGCA
ATCTTTCTTTATTAGGAAACGAAGTACAGGATGCAACTGACCATTATGTTCTAATTCTAT
TCTTTTCATCAAAATGAGTTCATCTTTTAAAGCTCTTTTGTAAAAAAACAACAAACCTGTC
TTTTCATTATTTTAAGATTGTGTTGTTTTTTTAACAAATCTTTAATCTCTCTGCTTCAGC
[C,T]

GGAGCAGAGCCAGGACTGGAAATAATCTGTAAGGGGAGACCTCTCCTCTAAATCAGCAAG ACCTGCCAACACTCTCTCTCTGATTGGCCTCACTCACTCTGCATTTGGCCCATTTCTCT CCTGTGGCTGTGGGGGGCTTCCAAGGTGTACAAGTTGGGCTTGGTGAATAAGCCACAG TGTCTTGGCAGATCAGGCAACCAGGGTTGGAAAATCCTGTGCATTCTAACACACCCCACT GGTCTCTACATGCTCTTATTTGGGTTATATTTCTTGGCCAAGGTTGCCATTGGGTTCCAA

50523 ATGGCTCTCACCTCATCAGTGCCTCAAAAACAATATCTGGGACTCTAGTTTGATAACT
ACTACTTGCATTGGAGAAATGACTCCTCTGGAAAGGTGAATACGATTCTCAGAGTTTGTT
GAGGTTTTATTGGTTGCTTATAGAAGTTTCCTTGGGCTGATTGGAGTTTGGTGTGCAGAG

53996

51537 GCCTGAAAAGCAGGCTAAGAATCAGCAAACATTCACCTAGCGTTTCAGGGGGGAGGTGCT
CTCTTCTGTCTTCAGAAGGAATCCAAGGCTAAGAGATTAAGCAGTTGACCCAAGGTCACA
GAAGCTTCTAACAGAGTGTGAGTTTGAACTCAAGTCCCTGATGACAAATAAAGGGCACTT
TTTTGTTGTTTCAAATCACAGCTGCCTCCAGCGATTGGGTTCTTTCACCTTGTTCTTTTG
CCCTGTCCCCTAGGGTAGCTGCAGGAGGTACCTGGGGAGGTGCATCAAGCATTCACCAGC
[C.T]

ATAATGTTTGTGTAATTCTGATTGAAATATTCGTATTCAAAAATGTGGATTCATTGTTCT
ACAGTCAGCATGCCTGCAGAGTCAGAGGTCCTGGGACCTCCCCAACCTCCCATCTCGGG
GAGCTGTGTCTTGCTGCTGCTACCAAAGGGGAGTAGAGAACCCCAACTTCAGAAGAAATA
GGCCTGTAAAAAAACCCACGGGTCTGGGCAATGCGTTGTGGGGGGTAAAAATATATTTCAG
TCTATTCGCTTTACTAATTTTAGCAGTTATTTGCTCTCCCTTTTTGCTGGAAGCAACATT
[C.-]

GAGAATTCTGGAAGTGGAGCTGTCCAGAGCTGACCCGTCTGTCCACATTTCAAATTTCAC
TTTGGAGAGTCCTGGGAGAGGGAGCAGATGAAGCCATTTCAGAAATGTAAATGCTGTTTG
ACATCTATTAGCTCAATGCTCATCCATTGCTGACAGCAGGATCCATTAGGACGCGAGTGT
CATGGATCAGAGACATTTGAAATATAGCGAGAAACATGCTACCCGCAGCAGAGGCCCATG
TAGATGACTTGAGAGAGACCATAGATGTGCCCACCACTGTGGTCCAGGCACCTCCCCCCA

ATTTACAAGCAAGGTTCAAGCTTGGTAATTAATATTTGTGCCTCTCTATGTAAGTTATGT
CTTTAAAATGAGGCAATTGCTTTAAGCATTTAAGACATTCCACGTATATTGCAGAGTAAT
TACTTTCCAAAGATATTTCCAACTGATATTTTGTTACATCTAAATATACATTTACAGTAC
TCAGTAGACCAGAATAGCTCTAATTTATATATTTTGGTCCACTGGGTTAGAAAAAGAGACA
TTTTAAAAGTATGTTTTTAATCAGTGTGTTTATCCCAAAGATACTGTTGGCTCCTCCAGA

58383 CCTGGGGTTGTGACTTCTAATTCTAAGTGGGGCCTGTAGTATGGGGGACTAGGATGTCTTT
GGTGAATACTTACTGAAATGCATTGGGTTAGAAAGCCTTGGATTTAACTGGACCAATTTA
TTTTCTTTCCTCAAAACTGAGTAATCACATTTATCCACCATTTCAGAAAGAGTAGATACT
AATAACATGAAAATTTTAGAACTATTTATGCAGCTTATTGTTTCTGGCTATATGGGAGGC
TAGATAACTTAGCTGACTCTCCCACTTAAAACAATTTTAAATAATGGATAAACATTTAA
[G, A]

63904

65698

CAATCCTTTAAATACCTCAGTGAGAAAGCAGGAACTAAAGATTCATAAGAGGCCAAAAAC
TCAGAGAAAGTTGGGTTCTAAAGCAGACTTTTGCTTTGAGAGTATTTGCCCAATGCAGGT
GACCTTGAACTCTGATTGTTACGACCTCAAGAGATATGGGGACAGGAGTCAAGCCTAGGG
CAGATCAGTCTGTTAGAAAACCTCCTCTACATAAAAGCTGAGACCCCAACAGACCCCAGT
AGGCTACCTCTCTAGTGTAAGGATGAAATAAAAATAAACATGCCCTGTCTTCTCTCAAGG

58512 CTCAAAACTGAGTAATCACATTTATCCACCATTTCAGAAAGAGTAGATACTAATAACATG
AAAATTTTAGAACTATTTATGCAGCTTATTGTTTCTGGCTATATGGGAGGCTAGATAACT
TAGCTGACTCTCCCACTTAAAACAATTTTAAATAATGGATAAAACATTTAAGCAATCCTT
TAAATACCTCAGTGAGAAAGCAGGAACTAAAGATTCATAAGAGGCCAAAAACTCAGAGAA
AGTTGGGTTCTAAAGCAGACTTTTGCTTTGAGAGTATTTGCCCAATGCAGGTGACCTTGA

CTCTGATTGTTACGACCTCAAGAGATATGGGGACAGGAGTCAAGCCTAGGGCAGATCAGT CTGTTAGAAAACCTCCTCTACATAAAAGCTGAGACCCCAACAGACCCCAGTAGGCTACCT CTCTAGTGTAAGGATGAAATAAAAATAAACATGCCCTGTCTTCTCTCAAGGATGTGTGAA GAAAATTGCCTGCCTTAAACCTTGATGCTGAGTGGGAGCCAAAATGTTTCCTCTGAGAAC AGGAACCACAGCTAAGCTTTCAGTAGAATTCATATAACAGACTAGTCTGAGAAAGCCTC

> TTAGTCCATTTTCTGTTACTATAACTAAATACCTGATAGTGGGTAACGTATAAAGAAAAG
> AGGTTTGTTTTGGCTCACAATTCTGGAGGTTGAGAAGTCCAAGATCAGGCAGCCACATCT
> GGGTGACTTCTGGTGAGGGCTTCATGCTGCATCATGACATAATATAGTAGGGAAGTGGGT
> GGGTGTGAAAAGGGGAAAACTCAGGGAGAAGCCTTGCTTTATAATAACACACTCTTGTAA
> CTAATTCAGTCCTGTGAGAGCAAGGACTCACTCACTTCCTCGAGAATTAATCCAGTCCTG
> [T,C]

CCACTGGGTCTCCACTGCCCAAAAGCTCAGAGTATTTACCAAGCTCTCTATACTTTGACT
GGGCCAGAATTTCACCTACTCAGTGCTATACAACCTGTAAAATCTCTGTTGAGCTCTTAG
CTCCCCAAATATTTCCAGGCCCCTGAAATCTTGCTGCTGTTCCTACAGCTTAGGATTTAG
TCCGGGACCAAAGAGAAACCCTATTCAGGCTTTTGGGGCTCCTTTTCTGTAAGTTGCTCT
TATCCTGAGCTCAATTCCAGTCTCAGAAATCTCAGACTTTGACATCTTTTCTTCTGCCT
[A, G]

67766

67863

AAATTTGTCCAAACTCACTTCAGTAGAAATAAAAAACCTAATCAGTCTTAGCATCATTCAAGAATATAATCAGATTTCTAACTGGAAATCTTCCCACAAAGAATATGTCAGATCCAGAT

TAATAGAATCTTATTTCACCAATATATTTGAAAGCTCTGCTGGTCAAATTTCCTGAAAAA
AAAATTTGTCCAAACTCACTTCAGTAGAAATAAAAAACCTAATCAGTCTTAGCATCATTC
AAGAAATATAATCAGATTTCTAACTGGAAATCTTCCCACAAAGAATATGTCAGATCCAGA
TATTTTACCAGTGGGTACTAACAAATTTTCCAACAACAACAATTTTCATCTCATATGAAC
TACTCCAGAATCCAGAAAAAGTGGGTATATTGATGAGAATAAACTTGACACCAAA
[A . G]

CCTGGTAAGAATGTTTTTTTAAATGCCAGTTTGTACATAAATACAAAAGTCCTAAGCAAA
AATTAGCAAACTATATTTAGCAGTCTATTAATAAAAGATAAACCATAACAATTTGGATTT
ATCTCAAACTATATTTGTTTGCCACTAGAAGTCTCTTGATGTATTTCACCACAGAACAAT
TTTAAGTGGATAAGTCATATAATCATCTCAATAGATAAAAAAGTATTTTAAAAAATCT
AATATCCATTCATTTATTAGTGTAAGAAAAAATTCTTACACTAGGAGAACCAAATAGAAG

AAGTTAAGAGTGTGTGTGTGTGTGTGTGTGTGTCTGTAACATTCTCTAGCTCTGTGTGCTGAGAAGGCACAGAAGCAGTGATACTCCAGTAGCAATGTACACCCCTAGCAGCCAGGTTTTCCACTGAAGGGAACTAAGCTTCCTTGAGAAGTGGGGAAATGGAGCAGAAAAAGTATACAATGAATCTGGAAGGTTATTTGGTGTCAGAAAAATAAAGCAGCGCTCAAAACATCATGGGGACTTGTCAAAACGATACAATAGTCAACTTAAAGGACTCATGCTGGCCACATCTGGACAATT

70895

AACCACCATATAAACAGTGCCCTGAGGTTACCATCTTGTGAAGGAGCCCAAGTGAGCCAACATGTAGAGACCACCAAGTGAGCCCAACTGAGGCCACCAAGAGAAAAGAGAGAAACGCCCCAACTCAACCAAGCCCCCAGCTGGCTAGCCCCCCGCTCTCCCAGCTCTGGCTGTTGTCTGACTCTAACCACATGAGGGACCCAGAGCCAGAATCACTTAGCTGAGTCCATCCCAAATTCCCAACCCACACAAATCATGAAAGATAAAATAAGTGTTGTGTCAAACTCCCAGGCTTTTGAATGGTTAC

ATGAGCAGGATGAGAGCACCTGCTATCTCACTTCTATTTAATATTGCACTGGAGGTCCTA
GCTAGTGCAGTAAGGCAAGAGAAAGAAATAAAACAATATGAAAATTTGAAAGAGAAAACA
AAACTGTGATTATTCACAAATGATATGGTTGTGTAGAAAAGCCAAATGCTCTGTGAATAC
ATTACTAGGATAACTAATATCTTTTAATAAGGTTGTTAAATACAAAATCAACATGCAAAA
TGTAATTGCTTATCTGTATAACAGTAACAAAGAGAAAATGTAATTTAAAATTGATACCAC

> CCAGGAGCAACCTCTCATAGAATCTTTTCCATATTTGCACTGGGAGACATGAACAAGAAA GTTCTAGCACCTCTGTTCATAATTTAAAATTATAAACAATTTTAAGATCTAGCAACAGAG GAATGTATAAATTCTAAATTGTGATATAGTCTACAGTGATAAAGAATATAGCAATTATCC TATAATAATATATAGAATATAAAGAGATAGATCTGGAATACTATACCCAGAGTGAAAATG AATGAATTACAGTTACATGTAATAAAATTGATGAGTCTCAGGCACATAATATTTTGGCAAA

72112 AATGAATTACAGTTACATGTAATAAAATTGATGAGTCTCAGGCACATAATATTTGG CAAAAAGAAGCAATGACAAAAACAAGTAAAATTATTATACATAAATTATACATGGATAAA CACTGTATTGTTATTTTATATGCCACATATACTTTATAACTACTTTGCTTCTATTCATAA

73738

CCATTCCGTGTGTATTTGCAGAGGATCTACTGTGTGTGAGAGGCCCTCTGCTTGGTGATA
GCGAAAGAAAGATGAACAAGGCATTGTCCCTACTCTGGAGCAGTTCAGTCTCTCAGTCTC
TGTGTAAATAAACCTAGTGCCATATGCACTATTATGACACAAAACAACGACACTCATT
AGTATGAGAATGTTTACTTCCTCTTCACTTCCTTCAGTCCACCAAAGAAAATCCCATAAT
TTCTAACCCAATTTCTATCCCCCTTGTCCTAATCTACTTGGACTGCTATAACAAAATGTC
[A, T]

ATAGCTGTCTGGGCCAGGCACCCTGCTGGTTATCACTCCATAGCTCAGTCTGTGTGAT
GTGTCTTTTGCACCTTCACCTTCATGTTTCCAAATAAGGAAAAGTGCAATGGAGAAAGG
GGAGAATATTTCTATAATGTGAATGACTCTTGCTACTCTGAGTTCCCTCAGCTGTTCAGT
TTATAATTCTTATAGGATCAGTTCAGGCCTGCATTTCCAGGGATGATGCTTGGCTGTTTA
ACAGCATTTTATGTCTGGAATGCTTATAACATCGGTCAGTTATGCAGTGAATGCACTTAT

GGTGTGTGTGTGTGTGTGTGTGTGTGTGTACACGTGCACATCTCAGAGCAAAAGAGAT CACAACTGAGAGGCTGAGAAAACAGACACTGGCTAGCCCTGATTTGGGGGTGAACC CTGGTCTTCATGAGGAGTCAGAAGCAGTTTCTAGTGAAAGTAGCATGTCTCTTTGAGGCA TAAAGCTTCACCAGTCTTCTTGGAACCTTGACTAATTTTTGATTCTCTGGTTCCATGAGC CAAGCATTATACTAAAATATACCCCTCAATTTGCAGAGAAGTGGAAGGTGTTCAAACACA

AGCTGTCTGGGCCAGGCACCCTGCTGGTTATCACTCCATAGCTCAGTCTGTGTGATGT
GTCTTTTGCACCTTCACCTTCATGTTTCCAAATAAGGAAAAGTGCAATGGAGAGAGGGG
AGAATATTTCTATAATGTGAATGACTCTTGCTACTCTGAGTTCCCTCAGCTGTTCAGTTT
ATAATTCTTATAGGATCAGTTCAGGCCTGCATTTCCAGGGATGATGCTTGGCTGTTTAAC
AGCATTTTATGTCTGGAATGCTTATAACATCGGTCAGTTATGCAGTGAATGCACTTATGG
[T,-,G]

## FIGURE 3, page 134 of 188

81882

TGTGTGTGTGTGTGTGTGTGTGTGTGTACACGTGCACATCTCAGAGCAAAAGAGATCA CAACTGAGAGGCTGAGAACAGACACTGGCTAGCCCTGCTGATTTGGGGGTGAACCCT GGTCTTCATGAGGAGTCAGAAGCAGTTTCTAGTGAAAGTAGCATGTCTCTTTGAGGCATA AAGCTTCACCAGTCTTCTTGGAACCTTGACTAATTTTTGATTCTCTGGTTCCATGAGCCA AGCATTATACTAAAATATACCCCTCAATTTGCAGAGAAGTGGAAGGTGTTCAAACACAGA

TTTGCAGAGAAGTGGAAGGTGTTCAAACACAGAATCAAAATAAAGGATAATTTTCCATCT
TCTGCTGAAACCTCTCATTTTCCAGCAATGTAGAAACAAAACAAGAGACGAGAGGACATG
TGGGGACTGAGAATGAGTGCATTAGCAGTCTTTTTGGAGATACCCACACAGACCTGATGAG
CTTCTCAGGACAGAGGGCTGCACTCAGGATTCATCCTCATCCACAGTGATTGTGGCTGTG
TGGACTTACACAACTGGCAGCTTGCTGCCAGTTGCCGCTCTGTTGGGTAGGAAAAAGGAG

TATACCCCTCAATTTGCAGAGAAGTGGAAGGTGTTCAAACACAGAATCAAAATAAAGGAT
AATTTTCCATCTTCTGCTGAAACCTCTCATTTTCCAGCAATGTAGAAACAAAACAAGAGA
CGAGAGGACATGTGGGGACTGAGAATGAGTGCATTAGCAGTCTTTTTGGAGATACCCACAC
AGACCTGATGAGCTTCTCAGGACAGAGGGCTGCACTCAGGATTCATCCTCATCCACAGTG
ATTGTGGCTGTTGTGGACTTACACAACTGGCAGCTTGCTGCCAGTTGCCGCTCTGTTGGGT
[A, G]

TACCCACACAGACCTGATGAGCTTCTCAGGACAGAGGGCTGCACTCAGGATTCATCCTCA
TCCACAGTGATTGTGGCTGTGTGGACTTACACAACTGGCAGCTTGCTGCCAGTTGCCGCT
CTGTTGGGTAGGAAAAAGGAGGACTTGGAAACTGCCTCCGGAGAGCCTTTTTGGAGGTGAA
GGAAGTTGGCTGGCAACTCTGTCCACTCAAGCTCAAAACTTCAGCCCGTTCACCAGCTCC
TGTTGGTCCAAGTCTGAATTGTCCAGGTTGGCCGACAAGTTCTGCTCCTTCTCCTGTTTC
[G,C]

CATTCATCCCATCTCCTGCTACTCCCATGTGGTCAAAGTCCTCATCCCCAGCTCCCT GCAAAGGCCTCCCCATGAGCCTCCCTGACCCTGTCTGCATAGCGCCACTTCACAACTCGT CCGCAAATGTTATCTTCTCACCACTGGCCAGCTCAGTTGGGGTTGGAGTGTGTGATAA GCTAATCCACGTGGAGATCTAAATGGCCTCCAGGGGTCATTAGGAACCCTCACTTTTTTT CTGCCCAAATTTCAAGACCATCCGTGGGGGATCCTTACCCTACCTCTCCAATAGGAGTCG

CTGGCAGCTTGCTGCCAGTTGCCGCTCTGTTGGGTAGGAAAAAGGAGGACTTGGAAACTG
CCTCCGGAGAGCCTTTTGGAGGTGAAGGAAGTTGGCTGCAACTCTGTCCACTCAAGCTC
AAAACTTCAGCCCGTTCACCAGCTCCTGTTGGTCCAAGTCTGAATTGTCCAGGTTGGCCG
ACAAGTTCTGCTCCTTCTCCTGTTTCGCATTCATCCCATCTCCTCCTGCTACTCCCATGT
GGTCAAAGTCCTCATCCCCAGCTCCCTGCAAAGGCCTCCCCATGAGCCTCCCTGACCCTG

CTGCATAGCGCCACTTCACAACTCGTCCGCAAATGTTATCTTCTCACCACTGGCCAGGTC
AGTTGGGGTTGGAGTGTGTGTAAAGCTAATCCACGTGGAGATCTAAATGGCCTCCAGG
GGTCATTAGGAACCCTCACTTTTTTTCTGCCCAAATTTCAAGACCATCCGTGGGGGATCC
TTACCCTACCTCTCCAATAGGAGTCGCACCCTAACCCAGCAAGTCCCCTTCGTTCTGGCT
GTACATTTGGGCTTTCCCTATTTGTGAATGGATTCTCCTCTTCCTCCAAGACCCAGCTGA

TGTCTTTGACAGACATATTTGAAGGCATAAAGAGCTAGGAGAATATTGACAGTTCCCACT
GGCTGATGGAGTAAACCAGGGCTTCAGGAGTCAGTCTAGAAGTCCAGATTCTGGTCCGAG
TCCTGCACTGGTCAGCTGAGGGACCTCGGGTCCTGCTCACCCCAAGACTCAATTTCTTCA
TTTGCATGACAAGGGCTTGTGCACAGGTTCTGTGAACTCTGGAATTCTTGATGCTTTTAC
TCATTCCCTGAAGAGGGTTAATTAGGACGAAGTGCTCTTTAACTGGCAATTACACTGCTGC

ATATAGCTTGTTTAGTGAGGCCGGCATCATTGCCAAGGCCAGGACGGTTTCTGATGATCA
TTTGCCAGTCTCAGGAGAACAGAGACCGTGAGGAGACTGCTTAAGATAAGAAACTC
CCCCCACTCACCATCAAATGAGAAAGCTATGGATCCAGAGCTGGGGAACACCACTGGGCA

85100

85318

GGATGGTTTCAATGCCCCTAATTTAGCTTGCTCTAATTCTCCCTAAGCAGCTCTTTCTCA GTGGGAAACAAGAAGCTGCCTTTGAGTGGGAACTCTGTGTATCCTTGTGAGGTAGAAGT

FIGURE 3, page 136 of 188

89813

GCCCTCCTGACCTCATTTTACGTTAATTACCTCCTTGAGAATTCTAACTCCAAATATAGT
AACACTGGGGTTAGGATTTTAACATGAATGTGGGGTAGGGGGGACTCGGGGGTGGCAGGG
GCACAATTCAGTCCCTTACACATTCTGTGGAAACACTTTTTCCGATGCCTTAATTATACC
CAACTGATTAAAATACAAAAGTAATATTAACAGTTCCCAATCAGTGCTTGAGGGCTAGAA
AACATTGAAATATGTGATCCCTGCCCCCGAGGCACTTAGCGTTTCAAATCTCGGACTCAT

GTTAATTACCTCCTTGAGAATTCTAACTCCAAATATAGTAACACTGGGGTTAGGATTTTA
ACATGAATGTGGGGTAGGGGGGACTCGGGGGTGGCAGGGGCACAATTCAGTCCCTTACAC
ATTCTGTGGAAACACTTTTTCCGATGCCTTAATTATACCCAACTGATTAAAATACAAAAG
TAATATTAACAGTTCCCAATCAGTGCTTGAGGGCTAGAAAACATTGAAATATGTGATCCC
TGCCCCCGAGGCACTTAGCGTTTCAAATCTCGGACTCATTGAGTTGTGTGCTTTATTAAT

91487 TGCATGGGTATGATCTCGGCTTAATGCAACCTCCACCTCCCAGGCTCAAGCAATTCTTCT
GCCTCAGCCTCCTGAGTAGCTGGGAATATAGGCACCTGCCACTATGCTCAGCTAATTTTT
GTATTTTTAGTAGAGAACAGGTTTCACCATGTTGGCCAGGCTGGTCTCAAACTCCTGACC
TCAGGTGATCCACCCACCTTGGCCTCCAAAGTGCTGGGATTACAGACATGTGCCACTGA
CCCTGGCCAGTTTGTACATTTTTTAGTCGGTTGAGAGTTCAATGTTTGCTATAAGGCCGA
[T,-]

92081 TTGTTTTGATCTGCCTGTTCCTGCTGCCATACCCCATTGTTTTGGTAACCTTAGTTTTAC
AATGCACTTTAATGTTAGAGAAGTCAACACCTCAGACTGCCTTTTCTGAATCTTTTTTA
GAAATGTTTTCCACATGAGTGAATTTGAATAATTTTTGTTATGTTCCCAAAAGAAATCCC

94938

ATTCACAATTTATTGGAATTGTGTTACTGTTATAGGGGAATATGGAGAAAATTTAAATCT
TTACAATCCTGAATTTTCCTATTCAGGGACACAGAGTCTCTCCGTTTACTCAACCCTCCT
[A,G]

95367 GGCTGCTCTGCCCTGCAACACTGGATGGGCACAGGACACACTGCAGTTCATAGT
GTATACTGCTGCTGGGGTCTCTGCTCTTACCCACTGTGTCGGTGTAATTTCATGTATTC
CTGCTTGTCCTAGTGGTAACCATTCTTCTCTGTGACCAAAGAATACAATTCAACGTTTCT
CCTCATATAGCAATTAATAATATGCATATTTGTAAAAAGAAACAATTCTGCCCTATTGGA
ACATATATGATGTGAATATAAGTATACCAAGATATTCCATGCTTATAGTTTGGAGTTAGG
[C,T]

GTCATCAAAGCAAAATGCCTGTTACAGAAGAGGATTAGCAAAGGCGCAGCTCTCTGGAGG AGGTCTGTGAGATACTAGAAAATCTTATCCAGGCCGGGCACAGTGGCTCATGCCTGTAAT CCCAGCACATTGGGAGGCTGAGGCGGGCTGATCATTTGAGGTCAGGAGTTCACGACCAGC CTGGCCAACATGGGGAAACCCCATCTCTACTAAAAGTAATATAAAAATTAGCCAGGCATG GTAGCTCATGCCTGTAGTCCCAGCTACTCAAGAGGCTAAGGCATGAGAATCGCTTGAACC

95495 CCTAGTGGTAACCATTCTTCTGTGACCAAAGAATACAATTCAACGTTTCTCCTCATAT
AGCAATTAATAATATGCATATTTGTAAAAAGAAACAATTCTGCCCTATTGGAACATATAT
GATGTGAATATAAGTATACCAAGATATTCCATGCTTATAGTTTGGAGTTAGGCGTCATCA
AAGCAAAATGCCTGTTACAGAAGAGGGTTAGCAAAGGCGCAGCTCTCTGGAGGAGGTCTG
TGAGATACTAGAAAATCTTATCCAGGCCGGGCACAGTGGCTCATGCCTGTAATCCCAGCA
[C,T]

# FIGURE 3, page 138 of 188

97768

98400

GGGTCACGTGTGCCCCTTGCTCCAGTTAGACGTGGTCACAGCAAGTTGTGGGGTACAAAA
TATGGCTGCCTGGAGCTACTTATTCAGTTGGGTCTGCGGTCAAGACAGTTTTCCTTAGAA
GAGGCTGTGGGTATGGTAAGGATCGTGGTTGACAGGATTGGTATGATGTTGCTGGCTACT
GGGGAGGAGAAGAGGGGAACAGCGCAAATCCAGAAGCCTGGTTCTTTGTCCTTAAGGTCTG
GCTGGAAAGAAGAAGAAGACCACATGCAACTCCATCGCTGAATGATCCTGAGTATCTCAGGGT

AAGCTTCCTCCAAGTCTCACTTTTATTGGGGCAAACTGATTAATCACTTGAAAAATTAAT
CATTTTTTCAGTGTAAATTTTCAAAAAGTTCTGTCCAGCTGGCTCTGCTCACCTCTTAGG
ATGTGTCACGGGAGAGTCTTTGGAGTTGCAGCCTTTGGGTCACGTGTGCCCCTTGCTCCA
GTTAGACGTGGTCACAGCAAGTTGTGGGGTACAAAATATGGCTGCCTGGAGCTACTTATT
CAGTTGGGTCTGCGGTCAAGACAGTTTTCCTTAGAAGAGGCTGTGGGTATGGTAAGGATC
[A, G]

TTAGACAAATTAGTTAATCACACTATGCCTCAGTTCTTTCAACTGTAAAATGGGGATAAT GCTGGTGCCTTCCTCATAGGGTTATTCTGAGGATTAAAGGATATAACGTACTAAATACCT TGGCACAGGGCCTAGCATACAGTGGGCACTAAATCATTGGTTATGATTATGAAGTATGAG

99782

104080

GGGGAAATCAAGAAGGCTTCCCTGAGGAAGTGGCATGAAGGCCAAGAGCTGGTAGCTGAG TAAAAGTTATCTAGAAAAAGAGACCCAGGATAGGAGTGGGAGGAAGACGAGAGCTCTGG GAGCTGAGAAGAGCCAGCATGGGTTAGGGAGTGAGGGGATACATGGGACAAGGTAATGCA GTAGAGGTAGGCAGTGACTAGGTCGCTCAGAGTCCCAGTGAAGAATGTTGAGTTGATCCT AAAAGCAGTGGTAAGCATCAATAGGTTGTAATCAGGGTTGTGACTTGATGAGGTTTATAG [C,T]

TTTAAAGGATTATTCTGTTGTAAAAAATGGGGATTATGGAGGCTGAGTTAGGAAACTACT ATAATAACCTAGAAGAGCAACACTTGTGGTTTGGAATAGTACAATGGTAGGCATAGGAGA AATAGATGGATTCTACCTATTTTTCCCTATGTTTGAGGAGCGTTTTGATCAGATATGGTG ACTTACTGGATATGGAAAGTGAAAAAGGAGCTTCAGGGATACTTCCTAGATTCCTGCCTT TTTCACCTGGACAGAGGCACTAAACACTAATACAGGGAGTTTCGGGGGGGAGGACCAGGTC

104087

TCAAGAAGGCTTCCCTGAGGAAGTGGCATGAAGGCCAAGAGCTGGTAGCTGAGTAAAAGT
TATCTAGAAAAAGAGAGCCCAGGATAGGAGTGGGAGGAGAGACGAGAGCTCTGGGAGCTGA
GAAGAGCCAGCATGGGTTAGGGAGTGAGGGGATACATGGGACAAGGTAATGCAGTAGAGG
TAGGCAGTGACTAGGTCGCTCAGAGTCCCAGTGAAGAATGTTGAGTTGATCCTAAAAGCA
GTGGTAAGCATCAATAGGTTGTAATCAGGGTTGTGACTTGATGAGGTTTAAAA
[G.C]

GATTATTCTGTTGTAAAAAATGGGGATTATGGAGGCTGAGTTAGGAAACTACTATAATAA CCTAGAAGAGCAACACTTGTGGTTTGGAATAGTACAATGGTAGGCATAGGAGAAATAGAT GGATTCTACCTATTTTTCCCTATGTTTGAGGAGCGTTTTGATCAGATATGGTGACTTACT GGATATGGAAAAGTGAAAAAGGAGCTTCAGGGATACTTCCTAGATTCCTGCCTTTTTCACC TGGACAGAGGCACTAAACACTAATACAGGGAGTTTCGGGGGGAGGACCAGGTCTTTTGGG

105134

 $\label{thm:control} TAGGCTGTTGGCTTGGGCTGGATGCATCACAGGGAACTGGGCTGAATATGGAGAT TTGGGAGTCATCAGCATGTGGATGGCAAAAGAAGCCATAAGTGGCTAAAATTGTCTGGGG CAAGAAGGTAGAATCTGAAGAAGAAGAAGGTCTACCACAGGGCCTGGAGAGCCAC TGACCTCTTTCATGGGAAGGTGGATGCATTTGAGGCTGAGTCTCCTTGTCTCTTTTACAC CAAGCCTGTCTGAATTCCCTCAAGACAACTTCCTCCATTTGCTTTATGATCCCGGTGGTG [C,T] \\$ 

GCCGGAGCCAGTGCACACTGGCTTATGCGAGCTTATTGTTAAATTTGCAGGAATTTTGTG AGCCGCTTGTTTGATACTGGCCATGTTAGGAGCAATCACACATGGAAATTGTCAAATTCT ACTAATCAAGGTTTTAAATTTATTTTTCCCTCTTCCTGGAGTGCTGGTTGTTTAACATTT ACCAGCATATCTCCGTTTCTAACCAACTCATCTTTGCTTCTAGTGCAACTTTTGTGGGTTC TTTCCCTTGGAATCTGGGAGTAAGCATGATCTGTGATCATTTCTATATCTCTCTGGAAAG

105911

TTAGGAGTCCTCATGAGGGCTTAATGAGGTTCTCTGCTTAGGGACTTACAAAGTTAAAAT CAATCGAAAGAATCAGTGCTGTGTGTGAGAGTAGAACTGAGATCCTTGCTGTATTAGGCTA CTCTCACAGTGCTATAAAGAAATACCTGAGACTGAGTAATTTATAAAGAAAAGAGGTTTA ATTGGCTCATGGTTCTGCAGGCTCTACAGGAAGCATAGTGGCTTCTGCTTCTGAGGAGAA GGAAACTTGCAGTCATGGCAGAAGGCATAGGAAAAGCAGGCACGTCTCACATGGCCAGAG [T,C]

105970 TCAATCGAAAGAATTCAGTGCTGTGTGAGAGTAGAACTGAGATCCTTGCTGTATTAGGCT
ACTCTCACAGTGCTATAAAGAAATACCTGAGACTGAGTAATTTATAAAGAAAAGAGGTTT
AATTGGCTCATGGTTCTGCAGGCTCTACAGGAAGCATAGTGGCTTCTGCTTCTGAGGAGA
AGGAAACTTGCAGTCATGGCAGAAGGCATAGGAAAAGCAGGCACGTCTCACATGGCCAGA
GTGGGAGGAAGAGAGGGGAGGAAGGTGCTACACGCTTTTAAAACAACTGGACCTCATG
[A, G]

106134 TCTGCTTCTGAGGAGAAGGAAACTTGCAGTCATGGCAGAAGGCATAGGAAAAGCAGGCAC
GTCTCACATGGCCAGAGTGGGAGGAGAGAGGGGAGGAGAGGTGCTACACGCTTTTAAA
ACAACTGGACCTCATGATAACTCACTCATTTCACATGAACAGCACTGGGGAGTTGGTGCT
AACCCATTCATGAGAACTCTGCCCCCATGATCCAATTGCCTCCCACCAGGCCCCACCTCC
AACACTGGGGATTGCAATTCCACAGGAGATTTCGTGGGGACGCAGATCCAAACCATATCA
[G, A, C]

GACTATTAGCTAGGGGATGCTCTCTGCTCCTAAAAGTCACCTGCATTCTTCCCTTCCCGT GTGGCTCTCCATCTTCAAATTGGCAGTGGCATGTTAGATCCTTGTCAGGATTTGATTCCC TTTGACTTCTCCTCTGCCACCAGCCAGACAAAGCTCTCTGCTTGAAGGGCTTGTGTCATT CTATCAGTCCTACCTGGATAACCTTTCTGTCTTTGCATCACCCGTGCCTGTGTTAGTCTC CTAGGGCTGCTGTAACAAAGTACCACAAAATGGGTGGCTTAAAGCATTGGGAATGACTTA

107058 AAAGACCTTATTTCCAAATAAAGTCCTATTCACAGGCACTGGAAGTTAGGACTTCAACAT
ACCTTTTTGAAGGACCCAATTCAACCCATAACAGTGCCATGTAACAAAATAGAACATAAT
CACATGAATGGTACTTCATCATATTCATTGGTCCCAGGGGTTACGGCATGGAATATTGGG
TGGTGAGGAGGCATTTTTAGAATTCTGCCTACCATAGTCTTCAAAGGTGCCCTTTAAATA
ATTGTCTCATCTGCTGACTTACCTAAAAATAGATCCCATGTCATCCATGGTGCCTCCTTG
[A. G]

TGATTACGATATTTGGTACAAGACACAGTGAAAATGAAGAACTCTTCCATCCTTCAAACA TGACCAATTTTGTGCTCCAATCCCCAGCAAAGGAAAGTTTGCTTTTGCTTTTATTTTT [T,-]

TTTTCTTAAAATTGTAAGGCATATAACAAATTGCTCTGCATTTTCTCTCACATGGTTTTG
GTTGGAAGATGTCTTCCCCCAGCCGTCTGCTGTACCTCACTCTTTAGCACACTCAG
GCTCAGGCTGGAGTCATCTCTATGGCCACCTTGTGATCTGCCCTCTCTTTTCATCTTCCC
CAGAAGCACATTTCCCACCATGAGTGATAGCCATGTTCCATCTGCAACTGGCTAAAATTG
CACGGCACTTAGAGTCTCCCTTTTATCTCCCCTTCCTCCAGATGTCAAGCAAATTCAAAA

TACAAAACCAGGGACAAATCAGCTAACTACTTTCTTTGTCTGCAAAATGAAAGCTCAGTT
TCTCTTCCAGGGACACTCAAGGATCAGATGAGTTCACAGAAATGAAAGTGTAAAGACTTC
AGGGAAGAGGAGGATGGTGAGCCAGGCCCAGGCAATAAAAAGACTCAACGTAAGCCTTCA
ACTTGAAATGGGGCCCAGGACATGCTCTTAGAACTCCTGCTCTACTCCTGTAGCAGAGCA
AATATTGATTCAATGCTCTAAGTGTTTTATGAAGCGCCCTATACATCCCCAGCCTTTTCCT

109168 AGCATGTCAGAGGCCCCAAATCCCCAGCACAGGATTAATCAGTTGAGCCTGTGCTCAGTC
ACAGAAGGAATTGAAAATCATGTAAGAGTGTGCTTCACTGAAGCAAATATGAGTTGTCAC
TGTTATGAACAGCACATTTCAGCTGAACTGCAACCTAGGAGGTTGATTCTTGGGTTTGGA
TTTGGGGAAGCAGTTGGTAATTCCAATTTGTGCAAGCTGATACTAGACGCGCCACCCTCA
GAGCCCGGATCACAGATTCATAGATGTCTGACTTTTGCTTAGATCCACACTCACACACTC
[G,-,T]

GGACAAGACCAAGACTAGCTGCTGAGTGGGAGAGGGCGGACAGTGGCTTACGATGGCTT
GGTGGGGAAAGACTGGCAGTGCAGCCTGGTTGCAAGTGGTTTGAGCGTCCCTTAGAACCT
CCCTCCTGGGACAGCCCCAGTCTCAGAATGGGGCAAAGGCAGGGGAAGAGCAGGCCAGGA
TCACCTCCCTCACTGTCCTCGTGTCCGCATTTCCTATGAGCCTCCCATGACATTCATCA
TGGGGCATCTGCGAGGGTATTGTGGCCAGAGATACCACGTCAGGGAATGCAGGAGCCTCC

### FIGURE 3, page 142 of 188

TGGGCCTGCACAATACAGAAAGGATTCTACTTAAGGCTGAGACCTGGGAGGACTGCCCTC
TCTGTGAAAATGGGGACTAAGAAAATTTTACCTAATGGTCAAGGAATGTGGCAAGTAGCT
TGTGGTCTGCCTAGACTTTGAACCACATTGAATTTACACTACTTACACGTTACAGAAATT
CTAAACCTAGAAATAAACTTAAAGATAGGTCCCAGATCAGTAAAACCACTAGAGCTCCTA
GAGAAATACATGCAAACCCATTATAAAGGACAATCTCCACACCAGAATATACAGGATGCC

ATGGGAAAAAGAAATCTCAACCTACAACATAAAATTGCAGATCATAAGGAACTAATTTG CCATCGGGAAGAGTTAACCCCAGACTCACACACTGGGGTTAGCTCCTTCAGAATCTTCAC GTAATAAAACACAATGTAAAAGTAACTATTTTAAAAATCTATGTTTGAAATTATTAGAATA ATAAAAAGAAGAGAATTATAAAGAAGGAATTGTAGGGGAAAAACAAGCAAATTTGGAAAA GTAGAATTTCTAGAAATTAACATTATTTAAATTAATAATACAATAAATGATTTAAAAACA

GACTGCCCTCTCTGTGAAAATGGGGACTAAGAAAATTTTACCTAATGGTCAAGGAATGTG
GCAAGTAGCTTGTGGTCTGCCTAGACTTTGAACCACATTGAATTTACACTACTTACACGT
TACAGAAATTCTAAACCTAGAAATAAACTTAAAGATAGGTCCCAGATCAGTAAAACCACT
AGAGCTCCTAGAGAAATACATGCAAACCCATTATAAAGGACAATCTCCACACCAGAATAT
ACAGGATGCCGATGGGAAAAAGAAAATCTCAACCTACAACATAAAATTGCAGATCATAAG
[G,T]

AACTAATTTGCCATCGGGAAGAGTTAACCCCAGACTCACACACTGGGGTTAGCTCCTTCA
GAATCTTCACGTAATAAAACACAATGTAAAAGTAACTATTTAAAAATCTATGTTTGAAAT
TATTAGAATAATAAAAAGAAGAGAATTATAAAGAAGGAATTGTAGGGGAAAAACAAGCAA
ATTTGGAAAAGTAGAATTCTAGAAATTAACATTATTTAAATTAATAATACAATAAATGA
TTTAAAAAACATATTAGGTACAGCTGAAGAGAGAATTGTTGAACAGGAAGATAGCTCTGAA

AGAAGGAATTGTAGGGGAAAAACAAGCAAATTTGGAAAAGTAGAATTTCTAGAAATTAAC
ATTATTTAAATTAATAATACAATAAATGATTTAAAAACATATTAGGTACAGCTGAAGAGA
GAATTGTTGAACAGGAAGATAGCTCTGAAATTACTCAGGAAAGAGCTCAGAGAGACACAA
AGATAGAAAATATAAAACAGATATTAAGAGAAATATTAAGATATTGAAATATTAAGAAA
TATTGTTAAAAAGATATTATTAAGAGTTTTGAAGAACAGTAGGGTAGTCTATAAGAAAAG
[C,G]

GTAGAGGAAGTGAGGGAGAAGAAACACTGGAAATGATAATAGCTAGACCTTTTCCAAAAT
TTTTTTAAAGATATAAATGCCTAGATAAAAGCAGCACTCCAAATCATGAACAGTATAAAT
ACAAATTATGTTACAATGATCTGCAGAATACCAAAGATAAAAAGTGACCAAAGAAAA
AAAGATTCTCTGCAAAGGAACAATTTCTAATTGCAAACTTCATTAGCAACAATGGAAGCC
AGAAGGCAATTGAATAATATCTTCTAAACAATGAGGTAAAATAGTCAACTTAGAATTCTG

ACATTATTTAAATTAATAATACAATAAATGATTTAAAAACATATTAGGTACAGCTGAAGA
GAGAATTGTTGAACAGGAAGATAGCTCTGAAATTACTCAGGAAAGAGCTCAGAGAGACAC
AAAGATAGAAAATATAAAACAGATATTAAGAGAAAATATTAAGATATTGAAATATTAAGAA
AATATTGTTAAAAGATATTATTAAGAGTTTTGAAGAACAAGTAGGGTAGTCTATAAGAAA
AGCGTAGAGGAAGTGAGGGAGAAGAAACACTGGAAATGATAATAGCTAGACCTTTTCCAA
[A,C]

ATTTTTTAAAGATATAAATGCCTAGATAAAAGCAGCACTCCAAATCATGAACAGTATAA
ATACAAATTATGTTACAATGATCTGCAGAATACCAAAGATAAAAAGTGACCAAAGAAGAA
AAAAAGATTCTCTGCAAAGGAACAATTTCTAATTGCAAACTTCATTAGCAACAATGGAAG
CCAGAAGGCAATTGAATAATATCTTCTAAACAATGAGGTAAAATAGTCAACTTAGAATTC
TGTTTGAGAGTGAAGGGCAAAGATACTCTCTGATAAAGATTTAAGAGGTTACTGAAGAGG

> AAAAAAAAAAAACTTTTAAAATTGTCAAACTCTGACAAGACTGGCAGTAAACGCTTATG TGCCAGAGACTGTTCTATGTGAATTATGTTTTAATTCACTCAAAGGTCAAAATGACCTAA GAAGTAGATCAGTTTGTTATTAATTTCACCACACAGCTACTAGTACTCTGTGACACCTGA

128453

ACAAAACACTTCTATTGTAGGACATTCCGGCATTTTTCATGGCACCCTGCAGATTTAAAA AAAAAAAAACAATGAGGCAAAGATGGGAGACTTATGAGGAAAATACATGTAAACCAGAGC

126402 ATTTCTGTGAACTCTTGAGGGCCTGCAACAACCATGGCTGAGCCCAGACTAACCTCTGGG
CAGCCCCTACCCTTGCCAGTTATGTTTCATGGGAGCCTGATTATTTTTAACAGATTCTCC
TATTGTTTCAGTTGCTTGTAGTAAATGTTGCTCTGCAGCATTGATGCTAGGGTAGTGCCA
GCCAGAAACCTGTGCAATGCTCAGATCTGGCTCTTTGGCCCAGGATAGTCTGGATTATCA
GACTGGGTTTATTTTCTTGGCATTGCAGTCTGGCTTCCTGATTATCTTTCAAACACACA
[C,T]

TTGCATGGCATTTCCTTCCATACTGAGCAGATTCCATCAACAGTCTTGGGATTCCACTTT
TCCTTTGCAATATGGACGTTTTTGCATCAGTTTGCATTAGCTGTTAGTGAAACTGGCACT
GCATCTGCAGGCAGACATCGCCAGACCGCAGCACAGTTCATCTTCAGATGTTTTCCTTTT
CCATGTTGGTGGCAGCTTCCTTTGCTCCTTCCTCCTCCTTCTCAAGATAAATTCCCCAAAGC
TTGGACCCAGCACTTTCTGCCTATTCTCATGGTTTTTTGTTGGGGTATGAATGCCTTAGAT

GGCGCAATCTTGGCTCACTGCAACCTCTGCTTCCCAGGCTCAAGTGATTCTCCTGCCTCA
GCCTCTCAAGTATCTGGAACTATAGGTGTGTGCCACCATGCCCACCTAATTTTTGTATTT
TTAGTACAGATAGGTGTTTTGCCATGTTGGCCAGGCTGGTCTCAAACTCCTGGCCTCAAG
TGATCCACCCACCTCAGCCTCCCCAAGTGCTGGGATTACAGATGTGAACCACCGTGCCTG
ACCAATGCTTGATAGCTCTTGAATGATCAGTCTCAGAAATAAAACTTGCAATCCAGATTA
[T,A]

CAGTGCCGCAGGATGACCATGAAGCACTTTGGTGGTATTTTAAGTGCCTCGGTTTCTGCG
AGAAACTCAAATAGTAGTAATGGCAAATATTTACATATGGCTTATTCTGCACCAGGTACA
GGTCTCATGGTGAAAGGTTAATATTATGGTCCCGATTTTGCAGATGAGGAAACGGAGGCT
TACAGAGGTGAAGTAATTTGCCCAAGGGCATCAGGCCAGTTAGTGGTGGAGCTGAGATTT
GAACCCAGGCAGTCTGGCTCCAGCCTGTGAGTCCCCCCATCTGCCTACTGCATGCGGG
[G, A]

> > FIGURE 3, page 144 of 188

AAAACTCAAAAACTCATGGCATTAACATAGTATTTCATTTCTAACAGCTTTATTGGGAT
ATAATTTACATGCCAGAAAACTGATCCATTTTATGTACAAGTCAATGATTTTTTGGTCTGT
TTGCAGAATTTTCTAAAATTAGTTTGTCACTACAATCTAATTTTAGAACATTTTCATCAC
CTGCAAAAGAAACTTGATGCCGATATCCAGGCACCCCCATGCCCACCCCAGCCCTAGGCA
ACCCCTAACTCACTTTTTGTCACTGTACTCTTGCCTCCTCTGGGCATGTCTCACATGGAC

129116 AAATTAGTTTGTCACTACAATCTAATTTTAGAACATTTTCATCACCTGCAAAAGAAACTT
GATGCCGATATCCAGGCACCCCATGCCCACCCCAGCCCTAGGCAACCCCTAACTCACTT
TTTGTCACTGTACTCTTGCCTCCTCTGGGCATGTCTCACATGGACTCATACACAATGTGT
CACTTTGTTTCTGACTTTCTCCACTGGGCACAGTGTTCTTGAGGTTCTTCCATGTTGTTG
CATGTCTTTTGGTTGCTGAATCATATTCCATCACATGTGCCACATTTTGTGCATCCGTTC
[A, G]

TCGGCTGATGAACATCTTGGTTGCTTCCACTCTTTGGCTATTGTATTACCCTCTTTAGAT
GGAAAAAGAACTGCATCCTAGAGAAGTCTTACGGCCTCGGTATAGACATCATCAGTGGAG
TCTGGCTGGCCCAGGCCGGTGCCTTCTGGTTGATTCACTCAAAATAGGTGTCGAAACTGA
CACCTATTTACTCCTTTTTTGTGCCCAGCACTGGGCTCAGCCCTGGGAGCCCTGCAGCAA
GTAAGACGCACATGGTCCCCGCCTTCATGGGATTGTCATGCAGGCAAGCAGTAAGTGAGC

TAATTTTAGTTAAACTTCTCTCAATTTCTACCCGGCAGTAGACATTTCTATTTTACTTAA
AGAATTATCCAAATACATTTCACTTTACATGGAAAATGTGCAAAGATTTGAGAGGTGAGA
AATCATTTTTATCTGTATGCTTTAGGGACTGAGACACTGCTGTGGATGGGGCGGCTTCTC
TCCATACTTTGTGGGGTCAGTGAAGGACTCCTCGCTTCCCTCTGCCACCCCTGCCTAACA
AGGCACCCTCCTTTCCATTTAGCAATCCGGGTCATCGCAGAGGCCTCAATAGCCCCAAGC

GAAACTGCACTCGTGTGTGAGCAAATTACCCCAGTTATCTGGCCATGTAGAAAGCTAC AGTTTTACTCTTCATGAAAAATTAAAATCTTGTCCTGATCTGATGTAAGGAAAAGGATGA GGCAACTTGGAGGAACTCAGCTATTGTTGATCAGGCAGATGATAAACTACACATTTTCTT GACTCAGGGGATCAATGGAGAAATCTTAGAGAGAAACTCACAGAAGAAATTAAGATTAAAT TTGCAAGCCTGTAATATGGGGAATGCATCTAACAACTACAGCAAAAATAAGGCTCTCTCC

129934 GTGAGAAATCATTTTTATCTGTATGCTTTAGGGACTGAGACACTGCTGTGGATGGGGCGG
CTTCTCTCCATACTTTGTGGGGTCAGTGAAGGACTCCTCGCTTCCCTCTGCCACCCCTGC
CTAACAAGGCACCCTCCTTTCCATTTAGCAATCCGGGTCATCGCAGAGGCCTCAATAGCC
CCAAGCAGAAACTGCACTCGTGTGTGTGAGAAAATTACCCCAGTTATCTGGCCATGTAGA
AAGCTACAGTTTTACTCTTCATGAAAAATTAAAATCTTGTCCTGATCTGATGTAAGGAAA
[A, G]

132304 AAAATTCACAGAACCATTCTCCACAACAACTTCTCTCTAACTAGCTTTCCCATCATGCAT
GAATATTTACACCTGCTTAAAATGCTGGGGATTGGAGGAACAAACTTTGTTCTCAGTCTT
AAATTTTCCTGAGAGCTATGAAAGCATTGGTATAACAATGTGCTGCTAAACTGAGGGCCT

> TGGAAAACCCTCCTGGCCTCCCCGTTCCCACGGTCGGACGCCGCCTTTGTGAAAGCATCT TTGAAATGATTGAGGTTGAACTATTACTGCAGAGCCCTTTTCAATAATGAATTTTAAATT

133636 CTCTCCCACCTATTGGTAGTTAACTGGGAAAATTGATGTGGTTTTTGTCAGGACGGAGCA
AATTCTCGGGAACAGGAGCCTGAAGCTTAGTTTTAGTTCCTAACTGAGACATGTGACGGA
CGTCCAGCTCCCCTGCTTCCCATACTTAAATGCCTGCCCGGGCCATGTCCTGGGGCCAGC
CTGGGCTGCACACGAGGCTCACAGCCTTGTGACACATGAGCTGAGGCATTCCTTTTT
ATTCTCTCTCTGCTGAGGACAGCCTTTGGGAACCTAACATTAGGATGACTTCGGGGCCAC

137136

GCCCAGCAGCTCTTAACTGATCCAGCCCAGAGGTGACGTATCATTCTACTCACACCCTGT
ATGTGAGACCTAGTGGAATGGCCCCCTCTAGAGCAAGGGGGATGAAAAGTGTAGTGTTAA
CTGTGTATCCAGGAGAGAAAAACCACACCGTCATACTTTTAAAGGCATCATCTTTAAGCA
AGCAGTGTCATTGGTAAAAAGTCCAATGCTAGACTGATCCTTATTCCTTGTGGGTGACCC
ATTTAATCTATCTGGAAGCTATTAGGATCATCCCTGTGTTAGTCCACTGAGGCTACTATA

ACACCCTGTATGTGAGACCTAGTGGAATGGCCCCCTCTAGAGCAAGGGGGATGAAAAGTG
TAGTGTTAACTGTGTATCCAGGAGAGAAAACCACACCGTCATACTTTTAAAGGCATCAT
CTTTAAGCAAGCAGTGTCATTGGTAAAAAGTCCAATGCTAGACTGATCCTTATTCCTTGT
GGGTGACCCATTTAATCTATCTGGAAGCTATTAGGATCATCCCTGTGTTAGTCCACTGAG
GCTACTATAACAAAATCGCATAGCCTGGGTAGCTGATAAACAACAGAAATTTAAAATTTC
[A, G]

GTGGCTGAGAAGTCTAACATCAAAGCACTGGCCAAGTCAGAGTCTGGTGAGGGCCCACTT
TCTGGTTCATAGATGGCACCTTTCAGCTGTGTCCTCACATGGCAGAAGGGGCAGAGGCCT
CTCTGGGGTCTCTTTTATGAGGGCACCAATCCCATCCATGAGAATTCCACTCTCCTGACC
TAATCACCTCCCAAAGGCCCCACATCCTAATACCATCACCTTGGGGGTTAAGATTTCAAC
ATATGAGTTGAGGGGGACACAGCATTGGGACCAGAGCAATCCCTTCATGAACCCTTTAAG

139365 CAAAGCTGTTCCATCCCCTCTGCCAGGTCCAACACTATCTGCATCTCCCAGTCATGCT
GGCTGCAGGGAACAGCACCAAAATTCACCCACTTGCTTAAAGTGGAAAACTGGGTCATCT
GTCATTCATCCCTTTCCCAAAGCCACATCTCAATGCAGCTCTGGTTATGAGCTCTTGGAC
TGTTCTCTCTCTTGAGCAGATCTTGCCAACAGAGTTCCTGGCTCCATTGCATCCCTGG
CCAATGCAGCCCACGGTCTTCAGAATTGGCGGCATTGGGTCTCCCAGCACACAGAGGAGA
[C A]

ACTTCTGTGCGGTCAGTGCAAAAGTAATTGTGGTTTTTTGCAATTAAGAGTAATTATACCT GCCTTTCAAATACTGCCCTTCCTTTAGGGCCTGGATTAAATGCTATTTCTCAAGAAAGTT

141321 ATTTCTGCAGCAGCCCCTGCTGAGGTCACTGTCTTCCTCCCAGCTGCCCTCCTTTCAGTC
GCAGTAGGGGCCGCCCAAGACACAAGTAACACAATCAGATCATAATTTGCCACTTCTTAA
TGGCTTTGTGGCTTCCTGTAAGCTAGGAGACAACGTATCAGACAACCCTTGGCATCAGGG
AGGGGAGAGCCAGCCTCCTCCTGCAGGCCCAGCCGTGGGAAACCTGGCTTCTCACACCTT
CACTCTGTCATGCCACTGAGCCTCTGTCCCAGGGAATGCAGTGGTGTACACATACACACT

TAGCTGGGACTACAGGCGCCTGCCACCGCACCCGGCTAATTTTTTGTATTTTTAGTAGAG ACGGGGTTTCACCGTGTTAGCCAGAATGGTCTCGATCTCCTGACCCCATGATCTGCCCGC CTCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACCGCACCTGGCCGGTAAGTGT TCTTGTCCCAAGGAATTCTTCTACCTCAACTCCACTCAAAATGAGAACCCTGGGGAAGAG AGAGATTGATGGATTGGCTCATCAGGGACTCTGTCCCCACCCTGCCCCCTCCTTTCCCAT

TGGTAAATGTTCTTTTTTTTTTTTTTGAGACAGAGTCTCGCTCTTTCGCCCAGGCCGGA CTGCAGTGGCGCTATCTCGGCTCACTGCAAGCTCCGCCTCCTGGGTTCACGCCATTCTCC TGCCTCAGCCTCCCGAATAGCTGGGACTACAGGCGCCTGCCACCCGGCCACCCGGCTAATTTT TTGTATTTTTAGTAGAGACGGGGTTTCACCGTGTTAGCCAGAATGGTCTCGATCTCCTGA CCCCATGATCTGCCCGCCTCCGGCCTCCCAAAGTGCTGGGATTACAGGCTTGAGCCACCGC [G.T.A]

CCTGGCCGGTAAGTGTTCTTGTCCCAAGGAATTCTTCTACCTCAACTCCACTCAAAATGA GAACCCTGGGGAAGAGAGAGTTGATGGATTGGCTCATCAGGGACTCTGTCCCCACCCTG CCCCCTCCTTTCCCATATGGGGAGCAGGATGTGGTGAGAAACTTGCTCAAGAAGTGGGTA AACACTTTGATGGCAGAGGCCATGTCCCGTTTCCTTCCACTCACAACCAAGTGAGGGGCA CAAATTATTCCTTCCCCCTGCCCCACTGCAGGAAAATGTACAAATCCTAACTTAATCTCT

> GCTTTGTCAGGGTCCTCATTAAGACTTTCTTCCTCCCACCTTAGACAGCACTGACCCTCT GTTCAGGCTCACACAGTCGCTGTCACCCAGGCCCACCTGCAGCTGTGCTGCCACTCACCA AAGTCTGAGAGGAACTGCTCCCTTACCAGGACAGTGAGCACTGGCCCAACCCCACTGTGC TCCTCCATGTGTGTGGGGAGTGGCCTCCCCACCCCTGCCCAGAGCAAGAACTGATTCTG GGTCACCCACCCAGGACTAGAACCCAGAGCTAGTCTGCCTCACTCCTGAACAACCACCGC

## FIGURE 3, page 148 of 188

TGAGCACCTGGCCAGCTTTCTGTTTGAGAAGACATCATCTGGGGGGCCAGAGGGGACATC
GGGGCATGTCACAGAAGCAGTTGTCGTGGCTCTCTTGCCTCAGTGAGGACGTGGTCTTGA
GATCTGTGTCTACCTTTCTCCCCCAATGCCCCTTCTTTGGACAGTGTCTGTGATGGACT
CAGGTGAGGTCAGATGGTTTTTGAAAGCAGATGGCCCCCACTTGCTGCCTGAGACCATTG
TTTACTTCTCATATCATGGCTGGCAGCAGGGCCTGTGCTTGGCAGGACTCTTCCTCTAAA

CGCACAAAGCAAGAATGAAGTAACATAAGCAGAGATGTACTGAAAATGAAAGTACACTCC
ACAGTGTGGGAGCGGGCCTGAGCATAGGGCCTGAAGGGCCCCGTTACAGAATTTATGGGG
GCTTAAATACCCTCTAGAGGATTCCATTGGTTACTTGGTTTACACCCTATTTAAATGAAG
AGGATGAAGTAAAGTTACAAAGTCATTTACTCGGCGTACACCCTATGGGGAGGATATTTC
CTTTCGTAGCTGAAGTGTAATCAGCCTCATGTGTTTCCTGCCTCCAGATCCTATTTTCC
[T,C]

151848 CACCCAGTGCATTTAGCTCCATCCTTGCTGAGGGTCAGAGGAATGGAATCTCACCAGTCA
TATTTCATGAGGTCTTTCAGCAAGTTCCTGTACTGTGTAGAGATCTGAAGGCCAAAAATT
CAAAAAGTCAGCAGGGCACAAATGGACCAGAGGTAGGAAGCAGACCAGTTCCTGGGGCA
TCCTCTGGGTGCAGCCAGGCTGTGTGTGCTCCCAGCTCTTCTCAACTCAGAACCATTCAT
GTCACAGATAGTTGGGGGCTCGTTCCTATGCTGGGGCAAAACCATAGTGAAGAAAATTGC
[A. T]

TGCTTATGTGTGTTACTTGTGCTTCAGGGTTTTTTGTTTTGTTTTGTTTTGT TTTGTTTTTAAGTACAACTTTGTATGATGTGCCTTGACCATTGACAAGTCTTCAGAAA AAAAGGAAAGAAAGAAAGCTTCATACTATTGGGTCCTAACCCAAAGTGCCAGTGACCAC AAGGGCTGTTGGCCTCAGCAGGGAAAGCCTGTGTCTGGGTCTTGAAGGCAGTGTAGGCAG CAGGCAGAGAATCAGCTGGTTTTCCCCCTCCCTAAGCTGGACTAATGCGTAAGCTAACCT

ATACAGAAGGACCCTGAGGAGCTCCTCCAAGAGTCCCTGGGGTCCTAATATAACCAGGAC
ATTATGCCCAAAAGACTGATCCACATGGCTGAGGCTCTTTACAGGAAATACCTGCATTGC
TAAGTTACTATCCCCAGAACGCCCTCCCCTGCCTTACACGTAGCAAGTAGAACTTGCTGA
TGACAAGACACTACGAGAGCTGGGAACCTAGAAGTATTCGGCGACTGTCAGACCTCCAGG
AGCCTCCCTGTGGGTTCAGAGGGAGCATGCACATGAACTTCTGGGTGCTAGCCCAGGCTG

TGGGTTCAGCGTTTCCTTGCCTATTATTTTCTTGGGAAATAAAATACCTCTCAAGATAA
TTGCCCAGCATTTTCATAGGATGAGTTTGTCCTTTTTCTAAAGCAGGAAGGCTAGGAAGT
ACCAAGAAGAGGAGCCTGGGTAGATGAAGGAATAAAGAGGAGGAAATCTAAACATGGGGA
GATTACTGAATGTGCCATGTGCACCTCTCCCTCTCCACTCTTCCAACTCAACCACAAA
CCTCCCAAGGCAGGGGCCACGTCTCCCTCATCTCTCTACCCTCCTCTTTAGTATGGAGC

GCCTTCAAGCCCCAGAGGGTGACTGGCAAACTTTGTGTGGTATTCAGAACAGACAAATTC
TAGGTCAACAGAATGTGGGTGGTGGCTTATCACAGAGCGGGGCAGCCATCGTGACTCGCG
CTCGGCTGCCTCATGAATTCCCTTCAAATGTTCCCAGCTAACGTGTGATTCCATGGTGAG
AGAAATGCCGCCTTTGAGGGCAGAGATATTTTCCTTTCTTGACAAATAGTTTCTATGTCC
AGGCAGCCATCTGCCACCTCTGTGAGCTTATGAGATCCAGCGACTGCTGCTGAAGGTTCA

156544 AATACCTTTGTCGCCTTTAAAAAATTCAGTTGTTTGGTTTTGGTACTTGAGAGAGTATGAGC
AAAGGATGATACAACAAGAATAGTCTATATCTTCTTAGACATGCTTCTCCCCAGGTAATC
AGAAAGGCAAGAGTGACACTCTGCCATGCAGCTAGAGTTTTTATATTTCCAATGGGAGTG
AGGCCAGGCAGCCAGCTTCTCCTTCTCCTGGCAAGGCTCTTCTGCCAAGTTGGGAGGGCT
CCATCCTCTGTGCCCCAACAGCCTGCTGTGTGGAACTCCACGGCAGCCCCAGATACTCTG
[T,C]

158718 TGGGCTGTTTTTCCTTGGGCATGGAGATGGAGGAAAGACTAGTATTTGTGTTTGGTGAG
GAACCTAAGTAAAGCTCTTAGCAAAAAGAATTCTTTCAAAGCCAGCTGGTAAGTGGCTAT
TCCAAAGCCACTTGTACAGGGGCTGCCAACACAAAAGCCCTTTCACATTTCTGAAGCAAA
CTTGACCTAAACCCAGAAAGAGAGCCTGGATTGTAACTTCTGCTAGACAACTGACCACA
GTGTGTCCCCAGTAAAGGCCTAGTGGGACCCCAAGAGCAGAGTCCTGGGGATCAATTCT
[A G]

165993

GGAACTGCTGTGATGGACCTTGAAACACGGGAGGGACGCAGACCTCACCCTCACCTCGG ACCCCGCCTGGGGTGGTTGCTTGAGGAAGGCTCTCCCTGTAATCCGCCCTTTCAGTCACT

160186 TGAAGCCGCACTGTCTGACCTTGGGAGCTGTCAGCGACCTCTCAACCTCAGTCTTCTGTC TCGAGAGTGGGGACGTTAGTGTTTCCCAATGGTGTCATGGTGAGACAGTGACAGTGAG  $\tt CTGAGCTCTGACAGAGGCAAGTGCCCACTGCTGCCGTTCACTTTGTTGTTACCGCCCTTT$ AACTTCTGTGTGCCCTCTACTGTGAGCCCCGGGAGCAGGGAACACCTGACATCATGTGCT CTGAGGGAACGCATTGAAAAGCCAAGGGTGGCACCTGGAAGGGATGGGTTACAAAGAGCC

> TCCACACCTGCACTCTGGGCTGTGCCACTGGCAGCATACGGGGGCCCCCCTGTTTCTC TCCTTCAGACGGTGTGGGTGCTGGGCCTGGTGATCTCCTGAGCCACTGAGGACGGTCCCT GGGCCTGTGGAAAATAGAGGTGCAGGGAGAAGTCTAGAAGCCATGACTGTGACTACAGAG TGAACAGAAACCATTCGGCAGGGCAGCCCTGGGGAGGGAAGCAGCATATGGTTTCAGCAG GGGCAAATTAACGGAATGTTATCTTCCTCCTACTTTATGATCACTGTTTACTGATAGTGC

161108 GGCCAAGGCAGACAGATCACTTGAGGTCAGGAGTTCAAGACCAGCCTGGCCAACATGGCG AAACCCTGTCTCTACTAAAAATACAAAAATTAGTTGAATGTGGTGGCGGCCACCTGTAGT CCCAGCTACTTGGGAGGCTGAGGCAGGAGAATCACTTGAACCCAGGAGACGGAGGTTGCA GTGAGCTGAGATTGCGCCACTGCATTCCAGCCTGGGTGACAGAGTGAGACTCAGTCTCAA AAAAAAAGAGAAAAAAGAAATTATAATCCCACATACATGGTTGCTTATCATGTGTTTC

> GTGAACTTTATGGAATTCGAGCTGCAGGAACCAGACCTACCATCTTATGAAGCGGGTCAT TCTTTCTGATCTGCCAGCCAGGTGCTTCTCAAAAGCACAGGATTTGGAAATTTCTGGGAG ATGCATCAGGTACTATTCTGATTCATCAGATAAAAGTTTGGCCTTAAGAAAAGATAGAAT AGTAGAGTGGTTTAAAGGGTGGACTTGGGCATCAGGTGACCTGGGCTGGACACTTGGCCA TATAGAGGCTTGGACAGGTGGTGCCCACACTCTGTGCCTTGACTTCCCCGGCTGTCACAC

GGATGAGTGGAGCCACAGAGCTGGGGAGGACCGGGGAGAGCCTGGAACCTGGATCCACC ATCAGAAGAGGGAGCAGCGGTGTGCAGACATGTCCTCTTAGGGGCCTGTGCTGAAACAGG AACCTTTGCTGTAGACTTTGGGAGGGGGCTGGGCTGTGGGAATACGGCTGCCTGAAAGAG GACCGCTCCTGATTCCCACCTGCGGAGGGCCCCGGGAGGAGCCCCAGTGTGTTCC AGGCAGGCTCTCCTGATAGTTGGTTAGGAACCACTCGAAAGAGAACACTTGGAGGAGTGG

GGGAGTGCCAGTGTCAGCAAGTTGGGAGCAGAAGAGAGCCCCACAGTGTGGAACAGGTAG CCAGCAGAACCCACTAGTGGACGAGAGCGTGAGGGGTTGTTGTTGTTAAGACAGAGTCTC GCTCTGTTGCAGCACAGTGGCATGGTTCGATCTCGGCTCACTGCAGCCTCCACCTCCTGG  ${\tt ACGCCCGGCTAATTTTTGTGTTTTTAGTAGAGACAGGGTTTCGCCATGTTGGCCAGGCTG}$ 

AGGTATAAAGTCTAGAGATGCTAATGGTGTTGGGTCAGTTGTATAATGCAGGCTTTGCCA CTGAGTGGTTTTTGTTTTGCTGACTCCAAAAGCCTGATTGAGCCTCTATGACTCAGGAGA AGGGAGGACATGAAATTTAGGGGTTCTGTGACCCAGGGGGTCATACCACAGATGCCTCCA TATTTTAATTCTCACTTCTACCAGGGCTCAAGATTATGTACCACTGCGTGAGCATTTTT

AGATAAAAAGCATCACATCTCAAGAAAAGCTGCAGAAGAGAAGGCTCAATAAAA ATGGATCTGACTCCATGCAAGCATAGCTCTATTTAGCATCTTTCATTCTAATGACTTAAT GGCCAGATACCACTATACAATTAGCAACAAAGAGAAGTTATTGGGAGCTGAAAGGGA

166679 GGCACGGACATGTAGGATTTAACCACTGAGTAGTTTATCCTTAGCCAATTAGCCATTGGA AGGTGATTGCCACCTCAGATAATCAGTTGAGACCTTTGCATGGAGACTCATCCTCACTCC TCCTGGAGGATGCTGTGGGCCCTGCCTCTGACCTGCATGTCTGAGAATTTATTGACAGC TCAAATCCACAGATGGGATTTCGCCATGTGACAGGGGGCTGTCCCTACCAGCCCAGCTTC TCACCATTGTGGGTACAATGCCAGCAACTCACTGGTTGATTGGCAGCATGGCCACCCATA [C,T]

> CCATTCAGAGGCATGAAAAGAGCTCCACCAGTGAACATCCACTTGTCCCAGGCCCTGCCA GCCTGGACTAAAATCCATGCAAGAGAGAGCTGGGCTTGCCAGGTAGCCAGTCACTTACT GTGTGAAGCTACCATGTGCGGAGCAGTGTCAGCCGACCCTGCTGCACTGGAGCATGCCTG TGGGAGGGAGTGGGCTCTGGTGGCAACATTGCTGGAGTGGGGAAATCTGAGTTCTCTAGT CCTGACCTTGCCACCAGCCATCTCTAGGGCCTCATGGAAGTGACTCAATTTCCCTGGACT

167136 CCCTGCTGCACTGGAGCATGCCTGTGGGAGGGAGTGGGCTCTGGTGGCAACATTGCTGGA
GTGGGGAAATCTGAGTTCTCTAGTCCTGACCTTGCCACCAGCCATCTCTAGGGCCTCATG
GAAGTGACTCAATTTCCCTGGACTTTTCCGGGGTTCAGTAGCCCTGTCTATCACTTGCTT
GCCTCAGGCCTCCAAGCAGGTGGCCCTCCCTTGTCCTGTGCTCCGTGCTGGAGTTTTC
CACTTGCATCCCTCTGTCACTGTGATGGGTGAGGCCACAGTTTGCCTATCTGC

CTAAACGTTTCTCGGCCACTGTAGCAGATACTGGCAGTGCTCTCATTGTTTCCTACACAC
TGAAGGCATCTTTTGCAACTCTCTGTCTCCCCTCGGGGTGCTACCAGGATGCAGGGGCAT
GTCTGGTCAGTGCACAGGGCAAGCCAGGAGTGCTGGGAGTTCATGTTCCAGGAGTAGCC
TTCAACCAACAATGAGCAAGAGTTGCTGGATAAGTACCAGCTCTGCACCCCTCAGGTGCA
GGAAGGCATCCTGCCCCATCTCCCAGGTGCCTTCCTGGCAGGCTTAATCCCAGCTGCCCA

ATATATTTTTGGCCATGAAATCAGCAATTTTTAATGATAAAATTCAGTTTTTAGCAAGGAT AGAGTGAAAGGGGACTCTCAAATGTAGCCAATGAAAATATAAAATGGCACCAACTCTGTG GCCAGTAATTTTGGCAGTACTTATTTATTAAGTCTCTTTTTTAAACATGCTTTTTGATTCAGT AATTCCACTTCAGGCAATTTATCACAAGGAAAAAAATCAGAGATTGCCTAAAGATTTATG TTCAGGGATGTTTACTGTAGCTTTGTTTGTCAAAGCAGAGTTTTTGGAAGCAGCCCCAAAT

TGAGGAATGTTGGGGTATTTCAAGGTTTGATAAACCAAAATTCCTCTGGGCCGTTGGGCA
TTTGAGAGACGGAACACTGAGAACATAAGACATGCTGAGATTTAGGTTGTTTTAGAACCT
GAAATCTCAGCTTACTCCTCCCAGAACTTGTGCTGACTTTCGGAAAAAGGAAACATTTTA
GCCTGGTTTGGGTTCTGGATTGCAGTAGCAGTGGTGTTTTGCTAAACTAAAGAAGGAAACT
GGAGCTTCTATCAGTGCATTATTAAAGCAGAACTGGCTGACTGTCTCCCTGGGAAATAAC
[A, G]

GGACTGAGGCTTGTGCCTCCAGCCAGAGATTGCTCCTCCATAGCCCCCATTGCCACCGCT TCTACTACTTTTGCCTCCACTCCCAGCCACCCAGTGATCCACCCTGCCAGAATGCACAA TGCCGGCATTGATCATTCCCCAACCCACGGTACAGTTCAGTTTCCTCTGCTGCTAATTGG CCATGAGAGCTCCGTTATGAGGGATCAGAATTGTTAGTCTCTTCCTAATGATCTCTGTCT GGAGACCAACTTCATGACATTCTCCAATTAGGGAGTGCGGAGGGGCAGGGCAGCGCTAT

182606 ACCTCCCCAGACTCCCGGCTATCCTTTGCTCCCTGTGTCCTCCCTTCATGGCAAAGACTT
TCCTTTGGTCAGGCTTGAAGGACAACACTCTGTCTTCTGCTAGCACACTCTGTGCTTTAA
AAATTCCTAACTGGGAAAGATGACTTCTTTTGAGATCAAAGGCACACTCTCAGGGATGTT
GGGGCAATGAGGGAAGGTGAAAGCTACAGAGGAAGTCAAGACTGGTCCACTTCCAGCTCCC
CATATGTGGAAGAAGAAGACCAAGGCCAAGAGAGAAGGGTCTTGCTCAGGGGGGGTCC
[C,T]

184663 AGAATCACTCAGCAAACGCTTGGATGTCACTGACTTTGAACGCCTAGAAAGTTCAGGGG
CACCACCTGCCTCGGAGCTGCATGACTCGGGTCTGAGGTGTCCCCTGAAATCTTGGG
GACAGGCACTTCTTCTGCTGGCGTCAGACAGAATGTGGTCTCCCCACAGGGAGCCCAGTC

CGATTCTGCAGAGCCCGGCTCGGCCCTGCTGGTCTGCGGGTGCCCTTTGCCCTCGTGCAC ACAGCGACACCTGGTGGTAAGCTGGTGAACCGCCGGGACCCCAGCGCTGTTCCTCAGCTC [C,T]

185392 CTCCTCACATAGCAGCAGAATTGGGCAGCCCTGCCCGCTGAGGTTCCAGGAGGAGGGCTG
AGGGCCTCTTCCACAGAGAGTGCTGTGAAAGGCTCTTGGAAGGAGGAGGACCCA
AGAGAGCAAGGCAGAGGGAGGATGGGCCTTCTCCAGCTCCTAGCTGGCAGACAGGACAGC
ACGAGGTACCGCCTGGATGCATTTAGGACTGAAGTTTCTGCTGATGTCAACGAATGCTGG
AAATGTCCCAAGACCCCAGTTCAGGACTGCGCCTCATCCAGGTGAGCAGTGCAGAGCAGT
[C,T]

AAAAGGGCCAGGAAACAAGCCGCCCATTCATTCGTGCAGTCCAAGAACAAAGCCAGCGG GCCAGCTCCAACCTGTTGTGACAGAAATACCAGGGGATCTTTTCTTTTCTTTTCCATTTC CCCCAGGCAGCAACTGTACAAATGAAACTTCAAAACTAGAGCTCGGCCGTTCAGAGCCTG CACAGCACTGACCTGTTTCTTGTTCATTTAGCCTCATTCTCTCAGAAGACAGAAAGCCTC ATTCATCAGAACAATCACTTCAGCCCAGAGGGGCTTGGGTGTTTTTTTAAGACATTACA

186612 AAAGAACATAGATCATATCGTACCACTCTCCTGCTTAAAATCCACCAGTGGCTTGTTACT
ACACTTAGGACACAGCCAGAGCTCCCCACCCAGCCCTGCTGCTCTCCCCAACTCGCCT
CTAACCCCATCTTTGCCCACGTCCTTCTTCTCCTTCATCCCAATCATCCTTCTTGCTC
TTCCTTGAAAACATCAAATTCACTCCCACCCGAGGGACTTGGCACTCGGTCTGGACTCTG
ATCCTCTTCAGCTTGTTCCCTCACTCCATGCTGAAAGGCTGCCTCCTAAGAAGCCCTC

AGTGTTACCCACCGTTAGGGCAATGGCCACCCCGTGGAATGCACCACCACAAGGGCAAGCG AAGAGCTCAGCGAATGGGGGAAACTCTTATCCCATATGCTCAGCTGTCGGGCCTGGGATC ATGCAAGGGAAAGTATACAGACAGCAGGCAGGGGAGTCCCCCGACAGTGGCTGTAGCCAG AACTGGCCACATAATTTGTAGGACCCACTGCAGAAGGCAAATGTAGAGCCTCAGCTAGGG GTTTCCTTTGGGCCCACTGCCCAACCCTCTACAGACAGCAACATCCAACAGCTTGCAAC

GGGGAAACTCTTATCCCATATGCTCAGCTGTCGGGCCTGGGATCATGCAAGGGAAAGTAT ACAGACAGCAGGGAGGTCCCCCGACAGTGGCTGTAGCCAGAACTGGCCACATAATT TGTAGGACCCACTGCAGAAGGCAAATGTAGAGCCTCAGCTAGGGGTTTCCTTTGGGCCCA CTGCCCAACCCTCTACAGACAGACATCCAACAGCTTGCAACCCCTGTACCAGGATGT GTTCAAAACCTGACTTGAAGGTGAGCAAGAGGCCCACTGTATGCACCATGGTGCTATCAG

# FIGURE 3, page 154 of 188

188478

> GACCACACCAGGTCCCTGTTGTCCTCTTGCTCCTGCTGCTATGGTGGCACCATCATTTGA GGTCAGGGAATTTGCACAGTAGTCCCTGCCTGAGAGCCCCCTTCATCTTCAGAGCCTAGA GTGGGTCAGAGCCCCTGCCAGCCAGCCTGCACAGGTGTGAAGCCCTGGATTGCTTGATAA GATTTGGGAGGAATAAAAGATTTCTTAAATTTCCACTTGAGATTATTTAATCACAAGTGT GGTTTGAACAAAAAGTAAAACCTGAATATGAATTATTTTAAAATTGAGGTATAATTTACA

GGTTTGAACAAAAGTAAAACCTGAATATGAATTATTTTAAAATTGAGGTATAATTTACA
TACAATTAAATGCATAGATTTTTGTCAATGATATTCAGCACATGTATACACCATCACTCA
ATCAAGATATAAAACATTGCTATCAACCTAGAAAATGATCTTTCTAGTCAACCCTCCCAT
TCACAGAGGCAAGCACTGTTCTGATTTCTAGCATCGTAGATTAGTTTTTAGCTATTTTTGA
ATTTTATGTAAGTGGAACCATACAGTAAGGAAACTTTGTGGCTTCTTTGACTCAAACTCA
[G,A]

TATAACACTGAGTTTTATCCATGTAGCTGGGAAAATCCATTGCTCGTTCCTGTTATTGCT
AAGTAGTATTTTATTGTATGACTATATCACAGTTTGTTTTTGTGATTCCTGTTAATGTACA
TTAGGTTCGTTTCCATTTGGGAACTACTATGAATAAAACTTCCATAAATATTTTTTGTATG
TGTCCTTTTGTGAGCATAGTCTTTCATTTCTCTTGGATATAACCTATGAGTGGCAAATA
AGCACATAAAAAGATGTTCAAGATCATCAGTCATTAGGAAATACAGATTGAAATCACAGT

> GAATGCTACTCAGCAATAAAAAGGAATGAACTGGCTGGGTGTGGTGGCTCACGCCTGTAG TCCCAGCATTTTGGGAGGCCAAGGCAGGCAGATCATGAGGTCAAGATATTGAGACCATCC TGGCCAATGTGGTGAAACCCTGTCTCTACTAAAAATACAAAAATTAGCTGGGCATGGTGG

> > FIGURE 3, page 155 of 188

189488

189909

189910

194673

CATAGACTGATCGCCAGAAGGAATTGTAGCTCATATGCAAACTACCTGAGTAACCTGAAA
AATCTCAAACATAAAATTTAGTTTAACCCAGAATGGTGGAGTCCTTGGGTGCCCGGCACA
ATCAAGAAGAGCCTATATCCAAAACTATATCTCAAAAAATTTTCACAGATTATATTCCAGA
AAATGTGAGCTCTTTTAAAAAGAAATCAAAACACCAAAAGGAGAATGCCATGTAAGAACC
AACAAAATCTGTGAATAACAAAATGATACCGAATATAAAATATGTATATTTTAATATTTTT
[T,A]

AAAAATTAAAAATATGATTGAAAATCAAGAGATTATACAAATGGCCAATCATCTTTATGA
ATGGCTAAAAAGAACTCTGAAAAATTCAAAATTCAAAACTCAGTGGAAGAGTGTAACAGT
AGGTTAGAAATAGCTGAAGAGTTAATTTAAGAGCTGGAAGACGGATTTGAAAAATTATAC
AGAATGCAACATAGAAAAACCAAAGATGGGAAATGCGAAAGAGAGATAACTTAAAT
AGAATGAAAATTTGTAGCATATTTCTAATTAGAATACCTGGAAAAGAGGGAGAAAAATAA

194808

TATCCAAACTATATCTCAAAAAATTTTCACAGATTATATTCCAGAAAATGTGAGCTCTTT
TAAAAAGAAATCAAAACACCAAAAAGGAGAATGCCATGTAAGAACCAACAAAATCTGTGAA
TAACAAAATGATACCGAATATAAAATATGTATATTTTATATATTTTTTTAAAAATTAAAAATA
TGATTGAAAATCAAGAGATTATACAAATGGCCAATCATCTTTATGAATGGCTAAAAAGAA
CTTCTGAAAATTCAAAATTCAAAACTCAGTGGAAGAGTGTAACAGTAGGTTAGAAATAGC

GAAGAGTTAATTTAAGAGCTGGAAGACGGATTTGAAAAATTATACAGAATGCAACATAGA AAAACCAAAGATGGGAAATGCGAAAGAGATAAGAGATACTTAAATAGAATGCAAAATTTGT AGCATATTTCTAATTAGAATACCTGGAAAAGAGGGGAGAAAAATAATGGAATAGAGATACC ATTTAATGGAAGATAGGTAAGGATGTTCAAGAACTGATGAAAGATAGAAATCCTCACTTT CAGGAAACCTGATGAATTATAAGCAGAATAAATGCAAAGAAATATGTGTGTTTTGCATCAC

194884 CACCAAAAGGAGAATGCCATGTAAGAACCAACAAAATCTGTGAATAACAAAATGATACCG
AATATAAAATATGTATATTTAATATTTTTTAAAAATTAAAAATATGATTGAAAATCAAGA
GATTATACAAATGGCCAATCATCTTTATGAATGGCTAAAAAGAACTTCTGAAAATTCAAA
ATTCAAAACTCAGTGGAAGAGTGTAACAGTAGGTTAGAAAATAGCTGAAGAGTTAATTTAA
GAGCTGGAAGACCGGATTTGAAAAATTATACAGAATGCAACATAGAAAAACCAAAGATGGG

AATGCGAAAGAGATAAGAGATACTTAAATAGAATGAAAATTTGTAGCATATTTCTAATTA
GAATACCTGGAAAAGAGGGAGAAAAATAATGGAATAGAGATACCATTTAATGGAAGATAG
GTAAGGATGTTCAAGAACTGATGAAAGATAGAAATCCTCACTTTCAGGAAACCTGATGAA
TTATAAGCAGAATAAATGCAAAGAAATATGTGTGTTTTGCATCACAGAGAAATTGCAGAAA
ACCAGAGAAGATGTTAAAATTATCCAGACATCAAAAATGGATTACCTATAAGGGAATGAA

195290 TTTAATGGAAGATAGGTAAGGATGTTCAAGAACTGATGAAAGATAGAAATCCTCACTTTC
AGGAAACCTGATGAATTATAAGCAGAATAAATGCAAAAGAAATATGTGTGTTTTGCATCACA
GAGAAATTGCAGAAAACCAGAGAAGATGTTAAAAATTATCCAGACATCAAAAATTGCATTAC
CTATAAGGGAATGAAAAGGCTATCAGGTAACATCTCAACAAAGCCAGAGGCAGGGGAAC
AAAAGGTTTATCAAGTTGAAAGAAAAAAAAATACACGAACATAAGAGTAATTACACAGCAT

AAAAACTCTTTAAAATTAGGATAAAATAGACATTTTAGACAAACATAAAGAGAATTTGAG GTATAAGAAGGAATTATGAGGAATAAAGACAGACTCACAATATACAGTATTGTCATATAG TTACGTCAGGAAAGGTTCTAAGGTGTTCTAAGGTTCTTCATGGGGAGGGTTAAAGTGTTG ATTATAGACTTTGGCTTAATTATACATTTTAAAATTTGAGATAAACAGTAGAAGAATAAA AGAGATATTTAATTTTTATATGAGCAGAAGAAGAAAAATCAGGGTGAAGTATTTGATTCAA

CCGTTTGTTGTACGATAATGCTTAAGCCATCCATAGAGTGGATAAGTGTTCTTTTCTGTC
TACTCATTATTTAATAGAAATAATTTAAACATTTATAGTTATTCAAATTTGATTTTTTGT
GTGGTGTGAAATAGGTTTCCAATGTTGTTTCATTCTAGGTGGATAGCAGGTTGCCCCAGC
ATCATCTATCAGAGAGCTATCATTTTCCCATTGGAGTGGTAACTCTTATTATACATCTAA
TTTTCATATACATTGGCATTTATTTCTGGATCCTGTTTTCTATTTTATTGCCAAATCTGC
[A.C]

> AATGTTCCAATCTTATTTTATGACCTTCAATAGGGTTTTACAGCCATTTTTTATATAGGT CCTATGGCTTTCTTGTCAAATTTGTTTACTAATATTTTATGGTTTTTACCATGATTATGA GTAGGTGGTTTTTCCGTTTTTCACCTCTAATTATTTATTGCTACTGTTGAGAGGAATGAT TAATTTTGGCATATTTATCATCTGTCCAACTAGTTTCATAATTCTCTTATAATTTTAATA TTTTTTCACTGGAGTCTCTTGGATTTCTAAGTATACAGATACATAATCATCAAAAAGAGA

TTCTATTTTCACTCTAGGTTTTGAGATATGTCTTCTTCTTGACCTTGGAAGACTGGAGTC
TTAATAGTGACCATTGTCTCCTTAAATTGCCCTGATATTCTTAACCTTGGAAGACTTGAC
[A.G]

TCTCAATAGTGACCATTATCTCCTTAAATTCTTTCCTGAAATTCTCCTGATTTTCTTGTT
GGCTCAAAAATCATAGTTCCCCCAAAAGCCTTCTTTGTGCTGTGCTTGATTCTCGTGGCA
TTTTGGTATTTTGTTGTCACTATTTAAGGTGTCACTCCTCTCTGCAGTAGCTGTAATTC
TAGTCATTTTTCAGAGGCTGGAGCTCCCAGTGTATATGGTTCTTTTCCATAGCCTGTTT
GAAGGCAACACTGAAGTACCTTAAGGCAGTGGTGGTCTCACAGAGAGTACCTGATAGGGC

199693 CAGTTTGTGCTGTGAGTTAGTTCCAGTCACTTTGCCCTAAGAATGTATAATTTCAGACTC
CCCTACCTTGGAAGCCAGGCGAGTTTATAAAGGGTCCAGTGAAGCCCTGGCGCAAGGGAA
ATTGCAAGGGAAGCATTTCCTTTGGGTATTTTGAAGCATGCTATTTTGCATCTGCCTTTT
TAAAAACCATTCAATACTTTCAGTATAAATATGTTCACCTTTCCATTAAGGCTGGCCTCC
CGAAGACAGCAACTACCCCACATGTTCATGCACTTGAATCAGTAAAACCAAATGGCTACT
[A, T]

CTTTTCCAGTCCTATTTATTCAACCTTTCACCAATTCAGTGTCCGAATTGAGCACTTACT
AAGTGCCTAGCTCTCTACATGAATTATCTCATGTAATCCTCAAAGCAATCCTGTAAGGGG
CAATCCCGTAAGGACCATTGTTATCGTCACTTTTAAATAGGGAAAAGAAGGTGGAACCTT
GCCTGGGCTCACACAACTATCAGCTGTGAAGGAGCACAGGACTGGGTGGAGGCCAAGGTT
TTACTGTGTTACTGTGTTACTTGAGACCCAGCGGGATCAACACAAGTACCGTAGGAAGTT

199734 AATGTATAATTTCAGACTCCCCTACCTTGGAAGCCAGGCGGAGTTTATAAGGGTCCAGTG
AAGCCCTGGCGCAAGGGAAATTGCAAGGGAAGCATTTCCTTTGGGTATTTTGAAGCATGC
TATTTTGCATCTGCCTTTTTAAAAACCATTCAATACTTTCAGTATAAAATATGTTCACCTT
TCCATTAAGGCTGGCCTCCCGAAGACAGCAACTACCCCACATGTTCATGCACTTGAATCA
GTAAAACCAAATGGCTACTTTTCCAGTCCTATTTATTCAACCTTTCACCAATTCAGT
[G. A]

TCCGAATTGAGCACTTACTAAGTGCCTAGCTCTCTACATGAATTATCTCATGTAATCCTC
AAAGCAATCCTGTAAGGGGCAATCCCGTAAGGACCATTGTTATCGTCACTTTTAAATAGG
GAAAAGAAGGTGGAACCTTGCCTGGGCTCACACAACTATCAGCTGTGAAGGAGCACAGGA
CTGGGTGGAGGCCAAGGTTTTACTGTGTTACTTGTGTTACTTGAGACCCAGCGGGATCAAC
ACAAGTACCGTAGGAAGTTCTGTTGCAGCACTCCCCTACCCCACCCCGCCCCCCTCCA

AAACCTCCAGCCTTTAGAGAAGTTGCTACTTAGGCCTCTAAGCTATGTGTCCCTGAGGTGGTGAGGAGCAGCCATCCTGCAGGCCAGGGTTGCTGATGTGTGGATGTATCCTGATGTTGGAGAAGCTCACACTATGGACATCTAGATCCTCCAGGCATGAGTTCCTTGAACTTGAAGCAGAGACCATATCACCAGCTGAGCAGATTATCCCAAGTTCAAGGGATTTGGAGTGACACTGATCAAAGCTAGGCTTAGCCACCTACTTGCTGTCTAACCATAGGCAAGTCACTTGACTCAT

201848 ATGTTGGAGAAGCTCACACTATGGACATCTAGATCCTCCAGGCATGAGTTCCTTGAACTT
GAAGCAGAGACCATATCACCAGCTGAGCAGATTATCCCAAGTTCAAGGGATTTTGGAGTGA
GACTGATTCAAAGCTAGGCTCTACCACCTACTTGCTGTCTAACCATAGGCAAGTCACTTG
ACTCATGTTTCCTAATCTGTAAAATGGGCATATATTCATGCCACAAATATGTGCTGAGTA
GGGCCTCTGTGTCTACTTAATAGAGCTTTAAGGAGGATTAAATGAGCATCAGATGAGCTC
[A, G]

TAGATTCTAAGAGTTTAGCATGGTGCCTGGTGGGCCTCAGTAAATAATAGTCACTT
TACACATGGCCTTCTCTGGCTGGGTGTTAACACACACATGTCCTTGGGAGGAATTACAGA
TTCTCATCCCAACCCTTGAATATAAATGAGGCGTTACAGGGTGGAGGTGGACCTGACGCA
GCCCCGGCATCCAGGGCATCTAGGAGTGTGGAGGCCCTCACCAAGGTAGCCTGTAGTCAG
AGCTCAGAGAGGGCTGCTCTCTCCCACCACCAGCAGCCCTGAGGGGTGCCGAGAGTTTTCTG

202730 AGGTCTCAGGTCTAATCTCACCTCCTCAAAGAGGCTTCCCTGACCAGAGTAAAGTGTGCC
CGCTGCAGCACCCTGGTTATTTCCTTCCTCGCATTTAACACCATCTACACTTGTCTTGTT
TTTTTGTTTGCCAGTTCACCCTCTTGTGTGTCTTCCTACACTGTCATGTTAGTGCCCTGA
GGATAGGAGCCTATTCTGTCTGAATCCTCAGCACCTGGAATCGGGACTGGCACATAGCAG
GTGCTCAGTAAATATTTGTTGGGTGGATAGATAGGGGAGGAGCTGGCAGGAACTGC

GAAGTGCCCCGTTGTTACCACCCACCCCATCTTAGGGTAGACATGGCACGGGACTGGAGC
GTCGGGCCTCTGCCTGGTTCTCACACAAACCTGAATTCTGCAGCTGCATACCAGGCACTT
GGGTGGTTTCTGCAATGAGAGAGTCGACACTGACAGGCACTCTCTGTCCCTGGACCACCT
TGCCACGTGTGAGGGTATAAGTTATCTTAAAGCGGGGAAGAATACTGGGACCGTTATGTC
CAATCCCTGGATGCGCACCCCACATATCTGCACATGGCTACATGTACATGGCTCTTCCGC

204904 TTAACACTGACCCCTCAGAGTGCAGCCTGCAGGAAGGCCATGGGAGCCTCCCCAGCAAG
TTAAGCAAACGTAGGTGCCTGCTGCCCTGTGTGACGCTGGGCCTCAGAGGTGCTCACTAC
CATCTGGACACACAGCTTTCAAAGGAGGGGGTCAGGGAAAGTAGCTTCTCCCCCCAGCCC
CCCATGAACTGGCTTTGGTTTGCCTGCCTGGGATGGAGTAGGTGGTCTCTGAAGCCCCTT
CCAACTCTGCTTCTCCAGGATTCTAGTTCTCTTTACTCCAGAAGACCCACCTCCACGGAC
[G, A]

CAGGCACTTTGGGGTAGGAGGATTCAGAGAGGGACACTTGGACTTGGGCTGGTAGCAAGC
ACTTCATAGAGAAAATGCCTACAACAGTGACTTGGAGCTGGTTTAGCCAGAGGAGAAAG
CAATGGGGGCCAGGGCACACGCTCTGAAGCAGGCTCGGAGAGGCCAGGGCACAGAGACTT
TGCCTCTTGTTTCTTCAAAATGGGCAATTAGTGGGTTGCATCCTATCTGCATGGGAAAGC
TATTAAAACAGTGATCCCATGGCAATGCTCTGCGTCCTGGCCCTGTCTTGGGAGAGAAAC

205991 ACAGGAAGGCGTGCAGAGGGGCCCGCTGAATGCCACTGGGCCTTCATGGTGACATGCGAAC
AATTAGCAAAGTGGATAAAAGAGATTCCCGCCTCCTTAGGATCTGCACTTTTATACTGCT
CAGAGATATTTGACCTTCTAGTTTATTATGATTCAAGAAAAAGTCAATACTTCTTAGTTT
GCCAAGGCTGGAGGAATTTAAATGAATTATTGAATCAAGCAGTTAATCTGCCGATAACTG
ATTTTTTTCCTTTCAAATCTGTAATGATGAAAAGCAGACTTAACCAAAAACAAGAAAAA
[T,G]

> CCGGGGCTAAAAGTTTGGTCATGATTACTAGGGCCATTCTGTCTTGCTGAGTATTTTGAT GGAGATTTAATTAACACTTAAAGCAAAGTCTTCTGAGGCTGTAAAAATCTGTATTCACAT TTCAGTTGTCTTTTGGTGTCCCTGTGTAATTCTCAACTTTCCATCTGTACCTTTAGTGAC

> > FIGURE 3, page 159 of 188

ATGTGCTGATTATCTCATTTCCAGACTCCCAGAATGCAGTGTGATGTTGGTGATGGACGCCTGTTTCGCCTTTCACTTAAACGTGCCCTTTCCAGCTGCCCTGACCTCTTTGGTGTGTGA

207237

208791

CACTAGACGGTAAGAACCATTAGGGCAGCGGCTATGGCTGTCTTATGCGCTTATGTATTA
GCACCTAGCACTGTGCCCTGCACCAAGAAAATGCTCAATGGCTCCCAGATGCTTGAAGAT
ACAAGGGTCAGAATGCACATCCTGGGTTGATTGATGTGCCCTGGTAAATAGTACATGCC
ATGGCCTGTGGAAGTATTTATTGTATACAAATATTTGTGTACAAAATGGGTATACATGAA
TTAGGAAGTGTGTAGAAGACAGAAGCAGCTTGCAGGCAGATGGGAACAGGCCCACATAGC
[C,G]

208799

GGTAAGAACCATTAGGGCAGCGGCTATGGCTGTCTTATGCGCTTATGTATTAGCACCTAG CACTGTGCCCTGCACCAAGAAAATGCTCAATGGCTCCCAGATGCTTGAAGATACAAGGGT CAGAATGCACATCCTGGGTTGATTGATGTGGCCCTGGTAAATAGTACATGCCATGGCCTG TGGAAGTATTTATTGTATACAAATATTTGTGTACAAAATGGGTATACATGAATTAGGAAG TGTGTAGAAGACAGAAGCAGCTTGCAGGCAGATGGGAACAGGCCCACATAGCCTGAGCTA [C,G]

209076

ACAGGCCCACATAGCCTGAGCTACGAGAGCCCACTTGGAGTTATGTGAGGTCAGGAATGT GCTTTAGGTTGCACAGGGAGGAGGAGGAGGAGGCTTGGACTAGACACCTGCCAAGTGCCTG CAACACTAGAAGACAAAGGCGTGAGAGCAGTCCAGGCTGTAAAGGCCTGGGCACCAAGTG GGAAGGGGCAGAGCTCCTGCCTCACCCTCACAGAACCCCACTGAGGATGGTATGATGCTG ACACACCTGAGCGGAGGCGGATTCATGGCTGAGGTGGTGGAGCAAAGGTGTTTGGCCTC [C,T]

209143

GTTGCACAGGGAGGAGGAGGAGGAGGCTTGGACTAGACACCTGCCAAGTGCCTGCAACACT AGAAGACAAAGGCGTGAGAGCAGTCCAGGCTGTAAAGGCCTGGGCACCAAGTGGGAAGGG GCAGAGCTCCTGCCTCACCAGAACCCCACTGAGGATGGTATGATGCTGACACACC TGAGCGGAGGCGGATTCATGGCTGAGGTGGTGGAGCAAAGGTGTGTTGGCCTCCGTTACA TCTATCTGTGTCACCTGCACCCACCTAATGGGCCACTCCACTCAGCAGTCGTGGCAGCAT [A,G]

GAGTGCTAGGCAGGGCAGGGCTTGGGAAATGTGCCTTTACCCGGTGATGACAATAGTCTT GGACACTTTCACAGCTGTGCTTATGATGCTAATGCCAAGGTGCTTCAGAGATCATGAGAC ACATTATGGAAATGAGGCCAAAATGAGCCTAGGAAAAACGTCCCCATTCTGGAAGCACTG CCCAGCCACGTGCCGCCAGTTCCTCTGCAACCGTGCACACTAAAACACTTGACCAGTTGC TCCAGCTTTATTGGCCGTGTTGAATTTTATAGACTGATGTTCCATTCTCTGGTTTCCAAT

209708

> GGTGATGACAATAGTCTTGGACACTTTCACAGCTGTGCTTATGATGCTAATGCCAAGGTG CTTCAGAGATCATGAGACACATTATGGAAATGAGCCCAAAATGAGCCTAGGAAAAACGTC CCCATTCTGGAAGCACTGCCCAGCCACGTGCCGCCAGTTCCTCTGCAACCGTGCACACTA AAACACTTGACCAGTTGCTCCAGCTTTATTGGCCGTGTTGAATTTTATAGACTGATGTTC CATTCTCTGGTTTCCAATATCCTTCAAATTGCATCTTCCTAAAGGTTTCTATTTCTGCAT

209499 GTCTTGGACACTTTCACAGCTGTGCTTATGATGCTAATGCCAAGGTGCTTCAGAGATCAT
GAGACACATTATGGAAATGAGGCCAAAATGAGGCCTAGGAAAAACGTCCCCATTCTGGAAG
CACTGCCCAGCCACGTGCCGCCAGTTCCTCTGCAACCGTGCACACTAAAACACTTGACCA
GTTGCTCCAGCTTTATTGGCCGTGTTGAATTTTATAGACTGATGTTCCATTCTCTGGTTT
CCAATATCCTTCAAATTGCATCTTCCTAAAGGTTTCTATTTCTGCATCAGAGTGTGCACA
[C,G]

GGGCAGGCAGCCTTGAGCAGATCAGGGCTCAGTTCTGCTTCATGCTGATTGAATTTATCC
ACCGAATCCTTCTGACTCATTGAGGTTTTCACACATTGTGAGTTGCCGCCCACTTGGTAT
AGCAGTGCTCCTCTTTAAGGACCCCTTTTTTGGTGGAGAGTGGTGCCTGTGAGCTCCCAG
AAAGACCAAGGGTGGCATCTCAGTTCTGGTACTTCCCAGCTGTGTGGTTTTTGCATC
ACTCTGCTTCTCTGGGCCTTTTCCTCGACTGTAAAATGGGACTAATGGCAGTACCCACCT

> GCCTCACCCTCAGGGTCAGCTGTAGTCCTGGTGGGAGGGCAGAAGAGCTGGGCTGCCTCT CCTCGATCATTCCCATAGGGAGTGCCCAGCAAACAGGAAAGACCTGGGCACTGATTCACA GGAGCCTGACGGATGGAAGGCAGGCCAGCCCTGAGGTGAGTGCCTTGGGGTGAGCACGTC ACCTTCACCAGAACCATGGCTCCAGGGGGGGAGTAGAACGAAATAGATGACAGAGGCTCTG TCGGGAACCTCTGTGGGGACAGAGGGTCCTGGAACAAAGGAGGATATAAAGAACAAGTTC

212286 CTGTCCTGCCAGGGAAAGCTTCTTACATCCCCAGCTTTGTCAGCCCAGTCCAGCTCTCAG
CGGGAGACTCACTTCCTGGGATGTGAGATCCAGCTGCAGGGCTGTGATGCTGTCAGGC
ATTGATAGGGGATTTAGTGTAACTCTGCTGGAGCAGTCCCTATAGCAAGAGGTGCTGGGG

CCTGTGGAAGCATCAGGGAGGCCCAGGCTGATGGGACAATGTGGCACGTGCTCAAGGGCA CTGCTTTGGCACGTGAGCTTTCTGTGCCTCATTTACTTCATCTGTAAAATGGGGATAATA

212767 TCTGTAATGAGCTAAGAGGTCAGGGGTGGTGGGTCCTCCTGTGAATGAGGGGAGAGAAGA
ACATTGGCCCTCCATATTTATTTAATGAATGACTAGAATTTGACCTCCAGTTGATCAAAG
TTAATGATCACCTTCTCTGTCTTGCTAAGAGATGTAAGGAGCCACCCAAGTTCATCTAGC
AGGTTAGTAGAAAAGCAAGGGGAGAATCAGGTATCTCTGATCCCCAGTCTGGACAAAGCT
CCTAGAATGTACCTCCGGGCTCTCAGGAAATGCCAGTGGAGCCTGGGGTAAGAATTCATC

GCCTGAAGATGAGAACGTTTAGAGAAGGTGCTGGAGGAGAGGGGACCTTCAAGGTGGATT TTGAAGAGCAAGGGAAGGTTTGCTAGGTTGAGAGTGTGGGGAAGGCTTTCTAGGAGTACA GGCATGAAGTACCTCCAGTCTCCGGGAAGAGCAAGTGATTATGGGATCCTGGGTGTAGGG GAGAGCATAGTTGGGGATAAAGGCAGACAAGTGGATCACAGCAAGCTGGGGAAAGGCCTT GTGTGCCAAGCAGGGAAGTCTGAACTCAAGCTGACCAGTGTTGTCCCAGAATTGGTGGG

> GGACCTTCAAGGTGGATTTTGAAGAGCAAGGGAAGGTTTGCTAGGTTGAGAGTGTGGGGA AGGCTTTCTAGGAGTACAGGCATGAAGTACCTCCAGTCTCCGGGAAGAGCAAGTGATTAT GGGATCCTGGGTGTAGGGGAGAGCATAGTTGGGGATAAAGGCAGACAAGTGGATCACAGC AAGCTGGGGAAAGGCCTTGTGTGCCAAGCAGGGAAGTCTGAACTCAAGCTGACCAGTGTT GTGTCCAGAATTGGTGGGTTCTTGGTCTCTCTGACTTCGAGAATGAAGCCGCGGACCCGC

> GGAGGAGAGGGGACCTTCAAGGTGGATTTTGAAGAGCAAGGGAAGGTTTGCTAGGTTGAG
> AGTGTGGGGAAGGCTTTCTAGGAGTACAGGCATGAAGTACCTCCAGTCTCCGGGAAGAGC
> AAGTGATTATGGGATCCTGGGTGTAGGGGAGAGCATAGTTGGGGATAAAGGCAGACAAGT
> GGATCACAGCAAGCTGGGGAAAGGCCTTGTGTGCCAAGCAGGGAAGTCTGAACTCAAGCT
> GACCAGTGTTGTGTCCAGAATTGGTGGGTTCTTGGTCTCTCTGACTTCGAGAATGAAGCC
> [G,A]

215017 GCTGGGCGGGCTTCCCTGCTCCGCAGGTCATTAAGAAGCCAGCTGCACCTTCTCCAGGG
AAAGCTGGCTCAATCATCCCAAACTCACAGAGCTTCTGGACATCAGGAAACCAGACCCTT
GTCTCCTTTCTAAGGAAAGAGTAGGAAACTGAGGGATACCCAGAAGGTTACCAGGGGAAC
CTGGGGTCAAAAGCAGGCAGAGCCTCTGGGGACAAGCCTACCTTCAGCCTGGTCTGGCCT
TGGAAGCTGGCCTCCACTTTCTCTCCCAGACTCCCTTTCCTGTCCCTCCAGTTGCCCTTCC

CTTCTGGGCCTACCCACATTTCTGTCCAGTAGCCGCTGTTGTTCTTTCAGTCTTTGCAAA
GGGATCTCTCTGTCCCCAGCCCTCTTCCTGGCCTTCACTTTAAGCTCCACAGAAGAGGGT
TTGGCTGTTTTCTGCCAAGCCACTCACCTTCACAGACATCTGCTGAATGCCCACTTGGTG
CTAAGGCTGTGCCAGGACCTGAGGATACCAGTATGATCAGAACACCGGGCCTGACCTCAA
GGAATTTATAGCCAAAAGAAACGCCACACATCTCCACCCTCTGGGTTATCCTTTGGGAGC

215021 GGCGGGCTTCCCTGCTCCGCAGGTCATTAAGAAGCCAGCTGCACCTTCTCCAGGGAAAG
CTGGCTCAATCATCCCAAACTCACAGAGCTTCTGGACATCAGGAAACCAGACCCTTGTCT
CCTTTCTAAGGAAAGAGTAGGAAACTGAGGGATACCCAGAAGGTTACCAGGGGAACCTGG
GGTCAAAAGCAGGCAGAGCCTCTGGGGACAAGCCTACCTTCAGCCTGGTCTGGCCTTTGGA
AGCTGGCCTCCACTTTCTCTCCAGACTCCCTTTCCTGTCCCTCCAGTTGCCCTTCCACTT
[C,T]

#### FIGURE 3, page 162 of 188

216552

217007

TGGGCCTACCCACATTTCTGTCCAGTAGCCGCTGTTGTTCTTTCAGTCTTTGCAAAGGGA
TCTCTCTGTCCCCAGCCCTCTTCCTGGCCTTCACTTTAAGCTCCACAGAAGAGGGTTTGG
CTGTTTTCTGCCAAGCCACTCACCTTCACAGACATCTGCTGAATGCCCACTTGGTGCTAA
GGCTGTGCCAGGACCTGAGGATACCAGTATGATCAGAACACCGGGCCTGACCTCAAGGAA
TTTATAGCCAAAAGAAACGCCACACATCTCCACCCTCTGGGTTATCCTTTGGGAGCTGCT

215180 AAGGTTACCAGGGGAACCTGGGGTCAAAAGCAGGCAGAGCCTCTGGGGACAAGCCTACCT
TCAGCCTGGTCTGGACTTGGAAGCTGGCCTCCACTTTCTCTCAGACTCCCTTTCCTGTC
CCTCCAGTTGCCCTTCCACTTCTGGGCCTACCCACATTTCTGTCCAGTAGCCGCTGTTGT
TCTTTCAGTCTTTGCAAAGGGATCTCTCTGTCCCCAGCCCTCTTCCTGGCCTTCACTTTA
AGCTCCACAGAAGAGGGTTTGGCTGTTTTCTGCCAAGCCACTCACCTTCACAGACATCTG

215370 TTTGCAAAGGGATCTCTCTGTCCCCAGCCCTCTTCCTGGCCTTCACTTTAAGCTCCACAG
AAGAGGGTTTGGCTGTTTTCTGCCAAGCCACTCACCTTCACAGACATCTGCTGAATGCCC
ACTTGGTGCTAAGGCTGTGCCAGGACCTGAGGATACCAGTATGATCAGAACACCGGGCCT
GACCTCAAGGAATTTATAGCCAAAAGAAACGCCACACATCTCCACCCTCTGGGTTATCCT
TTGGGAGCTGCTTTAGCCAGAGATGCCTCCAAGACCTCAAGGACAAACGGGAATCTTTAC
[A, G]

TCACTTTAAGCTCCACAGAAGAGGGTTTGGCTGTTTTCTGCCAAGCCACTCACCTTCACA GACATCTGCTGAATGCCCACTTGGTGCTAAGGCTGTGCCAGGACCTGAGGATACCAGTAT GATCAGAACACCGGGCCTGACCTCAAGGAATTTATAGCCAAAAGAAACGCCACACATCTC CACCTCTGGGTTATCCTTTGGGAGCTGCTTTAGCCAGAGATGCCTCCAAGACCTCAAGG ACAAACGGGAATCTTTACAGACTGTCTCTCATGTTGGATACCCTCTCCTCACTCCTCCGC [G,-]

TCTTGCAGCTGCTTCCAGGTCTTTCCCCTGGGGCTCTCTTCTCACAGTTCCAGCCATGCC
TCAAAGACCCAGACTGTCCCACGAGCAAAGACCCAACCATATCTTCATCCCTGACCTCTC
CTCACGTTTCAGTCTACCTCTCATTCCACCTGGGATGGTCCATCCCACCATCATCTCCTG
GCTGGATGACCTCTATGGCCTCCTAGCTATTCTCTGAGCCCCGGGTCAGATGCTTCTTCA
AATCCACTTTCCATATGGCATTTAGAGTAAGCTTTCCAAGATGGAACTTTGACCATGGTG
[C, T]

TGTCCTGCTCGAACCCTTCTGTCCAGTTGTTCAGCAATATTCATGTACTATGCGTCAGAT ACTATTTGGAGATGTGGGGACACAGCAGGGAACAAAACAGAGCCCAGTCCCCATGGCAGG TACAGTCTTGTGGGAGAAACAAACAGTAAACAAGAGTGAAGTCTATGTGATGGTGACAA GTGCCATGGAGCAGAATAAAGCCAGGAGGCAGTTAGCCAGAGCCTCTGATATGAGAAGT GACATTTGGGCAAAGGTCTGCAGCAGGCCGGGGGGTTAGGGAGTGAGGCATTTGAATATC

AGATGAAGTCTATGTGATGGTGACAAGTGCCATGGAGCAGAATAAAGCCAGGAGGGCAGT
TAGCCAGAGCCTCTGATATGAGAAGTGACATTTGGGCAAAGGTCTGCAGCAGGCCGGGG
GTTAGGGAGTGAGGCATTTGAATATCTGGGGGAAGAGTATCCCAGGCAGTGGCAATACAA
AGTTTGCAAAGATCCTAAGGTAGGAGCTTGCCTAGCGTGTTTTGGGGGCTCACAAGGGGGC
CAGAGTTGCTGGACCAGGGTAAGTAAGCAGAGAGAAACTGAGCAAGTCGGAGGGCTGATG
[A.G]

GGTTGATCTCCCCATAGGGCTCTGTCGGCCATTGGAAGCCCAAGTTCTTTGCCACTTGGC
TATATTGCCCTTCTCATTACTCCGTGAGGCCCACCCAAAAGTGGCCTTGATGAGGGGAGG
GAGTGACATGGAGCCTCCTCCCCAGGCTTCTCCGCAGGAGGCTGTTTGAGGAAGGCCCTG

FIGURE 3, page 163 of 188

219737

217549 CAACACTCGAGAGGTTTCAGATGATCACCAGGAGCCAGATGTTTAATTACTGGAGCAAGA
AGAAGTTGATTTGGGACTCCTTTAAGGTTCTCCCCTATCGTGCCTTCAATTAAGATCAAG
GCCCCCGTGTAGCAGCCGCTAAATGACACCATGTATTGAATCTCTGTGCTCAAGCAGTTT
GTCTAATTATCTGTGTGATAGACTCAGCAGCTGTCAGACCAGCCACAACTCAAATACGTG
GTCTCTGTACGCCTGCCTCAAAGTGTTTTATGCCCACTAGCAAGCTCAAGGACAGGACTT

TGCCACTGTGTCAAGTTAACTGAAATAAATGAGGGGGATCAGGAGGCAGTGACCCAGGGG
AGAGTAAATGACTGCTCATCTCCATCAGCAGAGAGTGTCTTCAGGAGTAAACACTTCCCA
GCAGAGCAGGCTCATTGGATGAAGGAGGAACAAGACCACACAACAACTGAATGTAAGG
TCTGTGGAGTTGAGTCCTCAGCCAGGAGAACTGAGGGACCACACAACAACTACAGAAAGCTGGGGC
CCAGCCCTGTACAGCATCCTGGGTCTCCGGGAACCACCCATGCTTCCTGATTGTAGGTGA

CTTGTGCCCAGTCCTGCACCTGGGTGCCTCATGAGGGCCAGATCCAGAACACATGTATTC
TCCAGGCTAATGAGGGAAGACAGAGCTTAACAGTGACTACTGAGTTTGGACATCTCCTAG
AGAGTTCTTCCCTCTGCTTTTCTTCTTGTTGTGCTCATTTCTGCTTTGATGCATTTTGAT
CACTTGTTAATGAAAGTAATCAGAGTGAAAACTACTTTCAAAAAGCTCCTCTAAAGGAAA
GTAGCAAAATCACTTTGCTTGCAGGTAATTAAAATAGCCAGATGCAGTGAACTCCGTCCA

CTGGGAGACTTCACCTGCCTTCACTGGTGTATCCAGAGACCATGGGAAGGATCAGCC ACTGACTGACGTGTCCCCGTGCCTTCATCTCGGTGGCTAGA GTGTGCTCCCCAGAAAGCATGCAGGGCTACAACTGAAGTGGAAGAAAACCGCAGCGGGTC ATAGTGTGTCTTCCTTGTGTGATGAAGCCTTTGTTCATGGGCGTGTGTCAGTATGCCAGT GACATGGTCAGGACAATTGGGAAGACCATTGGTCAATGCTCAATACA

FIGURE 3, page 164 of 188

221225 ATGGTCAGGACAATTGGGAAGGCCTGAACTATTGGTTCTAATGTTGCAGTCAATACAATG
TGATTAACCAATTAGAGAGAAATGCATAAGAGCCAAATTCTGTTGCCAAGAAAAGGCAAA
GAAGGTAGAAGAGCTGCCCTGTTAAGAGATAGAGGTAGAAGTTCAACCCCCAAGGCAATA
AAGGCCACCATGGGACACAGCCTTGCAGAAAAGAAGGAATGGCCATCAGGGTGGGGTGG
ATAGGATCATGGGAAATACACATTCTCATTCACGGAGAATGTGCCAGGCTGCCAGCCCAC

TTGTCTCAATAAACATTCTCCTAGCAATTTTAAAGGAACAAACTTTCCATATTAAAAACT
TTTGTGGTTCTCAGGGTAAACAACTGTGGGTATCAGGAAGACCTGAAGAAATGGGGAATC
TATACAAAAGGAAGGCAAAGTCCACTGCTGAGAAAATGTGGTTTCTCTCTGTAAAACATGC
TGACAGAAGCCCATATACTAATTTAGAGAAACAGTTGGCACAAAACAAGATGCACAGTTG
AGCGTGCCTGTCTAGAAGGCTGGGAAGGAAAGAACTTGAGTGAAGGCACCACCAGGATTC

223881 AAGGAACAGGAGGCCTCCAAAAGGGGGTGCCATCTGGACTGAGTACTAAATGATGAGAA
ATGGGTTAGAGAAAGAGGAGGGGAGTCTTCTAGGCCAAGGGTTAGGATATGAAGCCAGCA
TGGGGAGCCACAAGCCAATTGGTGTTTCTCCAAATATAGAGTTTAGGGCAGAGAAAGC
AGCAAGGGCAAGCCTGGAAAGGAGCTTTGGCCAAGCTGGGCCAGACCTCAGG
TTAAGGAGTGTGGACTTTCTCCTGGATGCAAGGGGAGGCAGCATTCTAGGGTTTTAAACC
[A, T]

TAGGCCTGGTGTTCAGAAAGATCACCTGTGTTGCCCTTGGGACAGAGTGACCCTGGAGGC AGGGGCCCAGCAGGAGGCATCGAGGACATTCAACAAAGCCACAGAAGCCTGAATCGGG GGAGTGGGCAGGACCAGGAATCACTTAGGAAAAATACAGTCAGCAGGACCAGGCACTGAT TGTGAAAATTAACCATCACCCTGCCCACCCCAGGATGGTTCTAACTGCCTTCCTCCATC CTTAGCCAGTCCTCGTCTAAGCAGAAGTACAAGTCATCTCAGCGAGGCCTGAGTGAAATC

224236 GGAGGCAGGGGCCCAGCAGGAGGCATCGAGGACATTCAACAAAGCCACACAGAAGCCTGA
ATCGGGGGAGTGGGCAGACCGGAGAATCACTTAGGAAAAATACAGTCAGCAGGACCAGGC
ACTGATTGTGAAAATTAACCATCACACCTGCCCACCCCAGGATGGTTCTAACTGCCTTCC

TCCATCCTTAGCCAGTCCTCGTCTAAGCAGAAGTACAAGTCATCTCAGCGAGGCCTGAGTGAAATCCTTCAACTGACAAGAGCCAAGTTTCCCATTTGGGCTGGGCCCTGAACAGTCCTG

224238 AGGCAGGGGCCCAGCAGGAGGCATCGAGGACATTCAACAAAGCCACACAGAAGCCTGAAT
CGGGGGAGTGGGCAGACCGGAGAATCACTTAGGAAAAATACAGTCAGCAGGACCAGGCAC
TGATTGTGAAAATTAACCATCACACCTGCCCACCCCAGGATGGTTCTAACTGCCTTCCTC
CATCCTTAGCCAGTCCTCGTCTAAGCAGAAGTACAAGTCATCTCAGCGAGGCCTGAGTGA
AATCCTTCAACTGACAAGAGCCAAGTTTCCCATTTGGGCTGGGCCCTGAACAGTCCTGGG
[A. G]

225653 AGATGGTACCTGGGAAGCACCTGCTGAGCCCACCAGGGTCTGGGCTCTGGAATGGCCAGG
AGGAAGTGCAGGATGTGGGCCACAGGAAGAGCTGTGACTGGGAACATTTGAAACTCAGG
GTAGGACAAAATCAGGGTGGGCCGGGCTTGGCCAGCTGGGGAGTAGCTGGTCATGCCAAT
GGAGAGGTCATTTCAAAATGGGCCAAGGAGTAACATGTCAGTAAAGTCCATGTGGGCACG
CAGAGCCTGCTCCAGCCACCTGAATATCCACCAGGCAGTTGCACGCTCTGTTCCTTC

CCCACCCCCTTCTCTCTCTCTCTCTCTCTCTTTTTCCCTGTACT
CCTCCTCATCTTCTCACCTCCTATTTCATTTTCCCTTTCCGTGCCCTCCTGTGAGGTCT
GACTTGAGTGTGCCTACACATATCTAAAACAAGTGACTGAAATAATGTGTTTCTCAGTTA
ACTGGGAGTATGTATTACATGGTGCAAGCTACTAGTTCTATGTTGAGGGAATTAAGCAGT
TTCCCTAGCAGAGTTGAGACAGTCTGAAATAGATGATCACCCATGCTCCCCAGCATCAGG

GGGGAAGGGGATGTGAAGAGGGAGTAAAACCCCAAGGTAGAGCCTGGAATTGACACACAT TCACTTAAACCCCCATTTCCTTGGAAAAGTAAGTCACACAGCCACAGCTAACTTGGCTAA CTTTCTCCTTGGAGGACAGAGGCCCTGCTTCCTCATGTTCCTCCAGTCCACGGCATCC CGGCCAGCGTGTTTAACTAGAGTGAGGGCTGAGTGCTCATAGGAACGCTTGAACACACAA CCCTGCACATAGCTGTCCACGTGCAAGGCTGACCTACTGGCATATTCATAGAATTGGA

> CCCATTTGGAGATATTCCAAGCTGTGCAACTGGAATCATTCTTGGATATGTCTTCCTGTG CACCTGTGAAAGTGTTCCTCTAGCGTGTACTCTAGGCACTGTACTTCACTCTCTTCTA GATATCACCATACTCTTTCCCAAAATTGTTGACCAGCTTTCCTTGGAAACAACAGTGTGT GAGTTCCCATAATTCATATTCTTACTAACACTTGTGACTATAAAACCCCTTTTTTGACAAA ATGCTTTTTCTGCAACTACTGAGGGTTTTGCCCTTTTTCCTATTGTTTATTACGGTAATT

## FIGURE 3, page 166 of 188

230490

236325

236111 TCCCCGCTGGAGGCTCAGTTCGCACCATAAAATGCCACATTTGATATGCAGATTCCCTGA
ACTCTCCAGAGAGGAGCTGGCTACCCAAGGGGAAACAAAGGCTGTTCAGAATGTGTCTGG
ATCCATTCCCCCATAAGTGATGTTAACACTAAAACACAACAGCTCTCTTTCATCGGGCTG
GTTTTATGGCTCCCACTCCAAGTGTTGCTTGGAATTGTGGTTGTCCTCATTGGCTTTTTA
CTACCTTTAAAAGTTCCTTTGCAGAAGCCTGTTGGCTGCTTCCTGACTCCAGGGCT
[T.C]

236317 GCTTGGAATTGTGGTTGTCCTCATTGGCTTTTACTACCTTTAAAAGTTCCTTTGCAGAA
GCCTGTTGGCTGGCTTCCTGACTCCAGGGCTTGTTGTGGAAAGGCCTGGAAGGTTGG
CGACTAGGAGCCTTGGGCCATGACCCAGTCCTAATACCAAGGTAAACACTGAGCTCAGTT
ATGTGTTCTCTCCTTGGTGTCACGTGCTTAGGGGGGATTCTGACACACAGGTGACCTCCAG
GGGGCAAAGACTAGGATCACACACAGTCTAAAAACTTTATTCCACAGGACAATAAATTTT
[A, -]

AATTGTGGTTGTCCTCATTGGCTTTTTACTACCTTTAAAAGTTCCTTTGCAGAAGCCTGT TGGCTGGCTTCCTGCTGACTCCAGGGCTTGTTGTGGAAAGGCCTGGAAGGTTGGCGACTA GGAGCCTTGGGCCATGACCCAGTCCTAATACCAAGGTAAACACTGAGCTCAGTTATGTGT TCTCTCCTTGGTGTCACGTGCTTAGGGGGGATTCTGACACACAGGTGACCTCCAGGGGGCA AAGACTAGGATCACACACAGTCTAAAAACTTTATTCCACAGGACAATAAATTTTAAAAAA [T,-]

TTGTGGTTGTCCTCATTGGCTTTTTACTACCTTTAAAAGTTCCTTTGCAGAAGCCTGTTG
GCTGGCTTCCTGACTCCAGGGCTTGTTGTGGAAAGGCCTGGAAGGTTGGCGACTAGG
AGCCTTGGGCCATGACCCAGTCCTAATACCAAGGTAAACACTGAGCTCAGTTATGTGTTC
TCTCCTTGGTGTCACGTGCTTAGGGGGATTCTGACACACAGGTGACCTCCAGGGGGCAAA
GACTAGGATCACACACAGTCTAAAAAACTTTATTCCACAGGACAATAAATTTTAAAAAAATA
[G,-]

ATACATACATACATACATAGATACATAGATACATAGATACATAGATACATAGATAATTCC CCTGCCAGTCCTCAAATCTCAGCATGAAGCATTATCTCCCTGGCGGGAGAAACATGAAAA CTGTCTCCCAAAGCTGATGGCCCTTTACCTGGAAGTTTGATGAGGTGTGTTTTGGCAGCCCC AGCAGGCAGATGTTCGGCCTGTGGGTGGGTGACAGGGAGGCCAATTTCAAATGCCCTGCT TGTCAGTGTCATGGATTTCAATTCCTCTCTCTCTGGAAGCAGTTTCCACCATAAAATGGTG

# FIGURE 3, page 168 of 188

238076 ATGGGTCTTTGAACTCTGGCTTTCTTTCTCTTCTCATTCCTGAAACCACCCCCTCTGC
TCTGAGGGCGAGGCTGCCTGAGCCTCTGACTCACTGCCTCACACCTGCCTACCCCTT
CTCCCCACTTCCCACAGCACCGCCTCATCCCTCATTCCTTCTCCAGCTGGCGGGACAG
GAGTCCAAACCCCAAGACTGCCCAAAGACCATGCTTCAGGACCCATGCTGCCCTTCCCCG
AGCCTGTCCTCACACAACTCTGCCTAGGAAGCCAGACCACACAGGACCCTGAGCACGCTG
[A, G]

TGACAGAGAATGGGACGCCCATCTCAGAAGAGAGAGAGGGCTTTTCAATTACTCTGGA ACTTTATTTATTTTTTGAAGGGTAATGCATTGCCGCTCTTAACTGTCTGAAATTAAAG TGGACGTTGAAAACATAGCCCTTCTATGAGCTTATTTTTATTTTTACTGAGCATAATTGG ACAATATAAAAAGTTTACTTTTTAAATGTGTCATCTCTTGTTTCTTTAAAACTGTAATCA CATCAATAGGAACTTTGCTGTTGAGATTTTATTGCTTTGTCTAGGTTCCTTTTCCAGCCT

> TGTGGGGGTGCTAGGGAGAGGGCCAGAAGGAGTAAATCTTAAGAAATGAGGTAGGCAA GAAACCTGGGTCTGCAGAGCCTGCAGAAGCCAATGAAGCAATGAAAGGGCCCTGTAGGTT TGGAAGCAAATGGCCGTTCTCACGGTTAAGTTACTTGGGAAGAATTCCATTTTGCTTTAC AAGGGATGATGTCAGCTTTAAGCCTTAGCTGAAATCAGCCCCTTCTAAACTGTAAACAGA CATTGATAGGCCAAACACAACTAGAAATTGGCTCCCTGGCTCCCAATCCCTGTCCCTTTT

252647 GCTGATTGGTGATGACAGTGGTGTCCCCAGGGCTTAGCACACAGTGGGCACACAGTATGT
GTTTGTGATTGAATCTATGGCAAATAAGAATTATTTCGTAGTGTACATAGCTGTCTGCAT
GAAAAGACTATGTTTTCATGATCAGGACTTCTTACAGCACAGCCCCCTTAGCCCTTGGCT
GTGGGGGAGGTTTGGGCAGCAGTTATAACTGGCCTCCAGGACCCAGAAGGCCCCCTGGGA
CCCAGGCCCCCAAGCCTCTGTAAGAGGCCTTGAGCCTCTTCCTCTTAAAAGATAAAACAC
[T.C]

TGATTGGTGATGACAGTGGTGTCCCCAGGGCTTAGCACACAGTGGGCACACAGTATGTGT
TTGTGATTGAATCTATGGCAAATAAGAATTATTTCGTAGTGTACATAGCTGTCTGCATGA
AAAGACTATGTTTTCATGATCAGGACTTCTTACAGCACAGCCCCCTTAGCCCTTGGCTGT
GGGGGAGGTTTGGGCAGCAGTTATAACTGGCCTCCAGGACCCAGAAGGCCCCCTGGGACC
CAGGCCCCCAAGCCTCTGTAAGAGGCCTTGAGCCTCTTCCTCTTAAAAGATAAAACACTA

252783 CATGATCAGGACTTCTTACAGCACAGCCCCCTTAGCCCTTGGCTGTGGGGGAGGTTTGGG
CAGCAGTTATAACTGGCCTCCAGGACCCAGAAGGCCCCCTGGGACCCAGGCCCCCAAGCC
TCTGTAAGAGGCCTTGAGCCTCTTCCTCTTAAAAGATAAAACACTAGCCATGCGAGGATT
TCCTGAGATGCCTGGACATCGGTCCTCACTAAGAGTCAGACAGTTCTCGATCCATCTTCC
CATGGGACCAGGGCACAGCCATGGGTGTTGGTTTCAAGGAGTTTCTCAGGAGTGTGAAGG

### FIGURE 3, page 170 of 188

TTGTCTCAAGGCCATCAGCTAGAGGACTGGTGCTGTGCCCTTAGTTATACCAGTATCTAT GGATTGGTCTCATGGATTCCCTGCCCAGTGCCCCGCCCTTTGCCCACTCTCTGAGGCCAC AGGAGGGATGAGTTCAAACTCTGTTCACAAGGAGCTTACGTGGTCTCATTGAGGAAGTAA AAGGAACTGCCAGTTACTGCTGGGTGTGGATTCACTTTACTTCCTCAGTGAGACCTGGGC CTGGGCCACCAAGGCTCTCCAGGATGTCCTCTGCATGTCAAAACTTCAATGCACACTCAA

254076 TCTCACTCTCTGGTGGAAAGATGGTGCTCCCGGGGCTGCAGGTGTGATGTAGGTGACGTG AGATCTGCATGGGCCACAGCTGTGGCCTTTGAATTATAAGATTGTCTCAAGGCCATCAGCT AGAGGACTGGTGCCCTTAGTTATACCAGTATCTATGGATTGGTCTCATGGATTCC CTGCCCAGTGCCCGCCCTTTGCCCACTCTCTGAGGCCACAGGAGGGATGAGTTCAAACT CTGTTCACAAGGAGCTTACGTGGTCTCATTGAGGAAGTAAAAGGAACTGCCAGTTACTGC

> GGGTGTGGATTCACTTTACTTCCTCAGTGAGACCTGGGCCTGGGCCACCAAGGCTCTCCA GGATGTCCTCTGCATGTCAAAACTTCAATGCACACTCAACCACGAGGGCTGAGCTGGAGG AGCTTCCAGGCCTACCCAGTCATCTCCATCCATCTTTGAAAACATTCATGGAACCCCTTT TAGAACCAGCTGATCACATTCCCATTTCAGCAATAGGGATTGTGCGCTCCTCTGTCGCAG GGCCAAATGGCGCTGGCTCATGCGTGTGTCATTCTAGCCCCTTGTCTCTTTCCACCCTGG

254547 GAACCCCTTTTAGAACCAGCTGATCACATTCCCATTTCAGCAATAGGGATTGTGCGCTCC TCTGTCGCAGGGCCAAATGGCGCTGGCTCATGCGTGTGTCATTCTAGCCCCTTGTCTCTT TCCACCCTGGTAAGGCCTTAAGGGCTTCCCACCTGGTCCGTAGCATCATCAACTCCCTGT GCTTTTTTTTTTTTTGGCGGCTATCTCTCCATCCTTATAATAGTCCTGTATAATAGGG GTCAGTTTACAGATGCACAAACTAAGGTTCTGGGAGGATAAGTGACCTCTCTGAGGCCAC [G.A]

> TAGCAGGAGCAGAATTAAGACCGGATGCAGCTCCTGACCCTGCGGCCAGTGCAGAATAGC TGCAGGGGCCTGTTTTCAAAAGCCCACCCCTTGACCTCTGCCCCAGTCTCAGTAACTCTG GCCTGCCTGTCCTCAGCAGGGAAGAGCCAAGCAGGATGAGCACTGCCCCGCATGTCCAG AACGCTGTCCAGCACGCTCAGGGCTCCTGCCGCTCCTAAAGAACTGGCCTCTGGGAAGT

AGTCTCAGTAACTCTGGCCTGCCTGTCCTCAGCAGGGAAGAGCCCAAGCAGGATGAGCACT GCCCCGCATGTCCAGAACGCTGTCCAGCACGCTCAGGGCTCCTGCCGCTGCTCAAAGAA CTGGCCTCTGGGAAGTGCCACTGCAACCCAGAGGCCCGTGGTGAACAAAGCCCCGCAGGC 

 $\tt GTGTACAGTTATTTTTGTCTTTGGCCTTATGGCCTCTGCTATAACACTGTCAGGTGGCAA$ CTTTTTAAGAAAACTTCTAGAAAATGTTGATCCAAATTGTATGACTCTGGTTGTCCCAC  $\tt CCCACCTCACCTAGCTCTGTCCCTCATTTTCTACAACATTCCCTCATTTTCACTCCTAG$ TTATTTCCATCTGAGAAATGGTGCCCCACACACTCTCCTGCCAAACTCCAGGGGAGGGCA GGAGGAACGCCTGGGGCCTCTTTTGGGGGTGTGGAAGGGACCCCTCGCACGCCCCTTCAG

GAGGTAGTCAACCCTGAGAGCCTGAGGCTGGAGGGAAGATCTGCCCATGCTGTGTGGGCC CTTCGTGCAACAGCGGGTTCTCATGGGGCTGGACACAGAGGGGCAGACTGGGGCCCCAGC GGGCACAGCAGTGCTGGTCCCCAGAAGGGGTTTGTCTCAGTGCCTCTAATAACCATCACT CTTGGTAAGTGTATGACACTATCTCCAAGAACAGAAGAACATATAGTCCATCCCATGGG TCTTTTACAGTCACATAGCAGCATGACAAACAAAGTCCATCCTATGGGTCCTTTACAGTC

CATGGCAGCCTGACAAACATAAAGTCCATCCTATGGGTCCTTTACAGTCGCATGGCAGCA TGACAAACATAAAGTCCATCCTATGGGTCCTTTACAGTCGCATGGCAGCATGACAACAA AGTCCATCCTATGGGTCCTTTACAGTCGCATGGCAGCATGACAAACATAAAGTCCATCCT ATGGGTCCTTTACAGTCGCATGGCAGCCTGACAAACAAGTCCATCCTATGGGTCCTTTA CAGTCGCATGGCAGCATGACAAACATAAAGTCCATCCTATGGGACCTTTACAGTCACATG

261462 ACCCAGGAGGCAGAGGTTGCAGTGAGCTGAGATCACCACTGCACTCCAGCCTGGGCAA CAGAGACTCTGTATCAAAAAAGTAAAAAATAAAAAAGATTAGAAGTCAAGAGGATTGGGTG GGGTCACCTGTACGCTGCCCAGGGAGCATACTAAACTGAGCCTGCTGTGTGACACACCTC CCGACAGAGGGAGTTCACACGCAGCCCTCCCAGGGGAAGAGACAGAGACCTACACAGCCA CAGGCAATGCACCGGTGTCTACTGCCTGCACTGATCAACCCATCATGCACAATGCAGC

> GACAAACGGGGATCGTGAGACATTTTGAGAAAGCCAAGAGCACAAAAGGGAAGAACCAAC AGGAAGGAAAAGAGCAACTGGCTGTGGGGGGATAGGGAACAAAGGAAAAATTTTTAAATTT TTAAATCTAATAAAAAAAACCTTTAGAGGGACTTGATAAAACATTTCCATAAAATAAGA

> > FIGURE 3, page 171 of 188

Į, to TŲ. Ö

254892

265258

262167 AACAAAGAAACTTAAGAGCAGGAAATTACCAAAGGAATAACAGAAGAAAACTCCCCAGAG
CTGAGCTAAGATATAGACCTTCAAAAAGAATGACCCACTGAGACAGAAGCAGGGGGGGAAT
GAAAAAAGACCCACAGTTGTATAGTTGCGTATCCTCTTGATATTTCAGAACATTTAGGAT
AAAGAAGATTCTCAAAGCTTCCAGAGGTAAAAGACAAGTTATCAACAAAGGATCAGGA
ATCATTGTTGGCAGATTGGCATTAGCAACACTGGAAGGCAGTGAGGTAATTGCCTTCACA

> GTTAGAACAGAAAGTCAGAAGGTTCTGAAAAGCAAGTCTTCAAGAAGAAAGTTAATTCCA TTGAACAAAAATAAGATGAAGAAACTGGAAGACCTCAGAGATATGATGAAGAATACGTAT GTGCTATCCCTCAATAAATTTTTTAAGGCAGTTAAAAATTCTGGAGAAGGCAAATTGCTA AACCAGAAAGACATCATAAAATATTAAGCAAACTAAAATATGTCACGATTTTGAGCAATT AAAGGAAGATGAAGAAAGAGAACAATTTAACTATGAAGCTTAAAATAATCTCCTTCAAAC

GAATTAGGACTTGCAGAGTAAACAGAAACCCAGTAGATGGGAACTGCACCCTTGATAAAA TGTCTCTTACTGCCTTGAATACAACCAAACATCACCAAACCACAGCCCCCGGCTATAAAA AACTTTTTTTCAATTATAAGGTCAGAGTCTTCTTTCAACTGCGCTAAGCAGTTTGACCAA AACGTGTATTTCTGATATGTGTGGTTTTTGGAAGACCTAAGATTCTCAAGCCCCAGGGTTC AGAAGGATGCCGCAGTGTTTTGAAAAGTCCTCTGTATTCCACGTTCTGTATGAAGCTGCC [A, G]

AGTTGCTCAGGTGTTCCCAGGAACAGAGGTGGCCGTGGGCCAGCCTCCCAGGGAGCCC AGATGCTGGCTGCAGGCTGTCTCCACACCCGTGCTGAGTGTCCAGCCCAGCCAAGGTATG TCTGCTTTCTGTTGGCACCGCTAGTGGCCCTAAGGAGACATTTCACATCAGAGCTAGCGT CAACCCTCCCTCTGTCCTCACAGAGGACTCAGAACTTTCTCTCTTCTTCCAGAGTTG CTAAGGGAATCCGCACCCTGCTTTACCTCTTGCTAACTGAAATAAAAAAGTTTTCCAGGA

267127 CACATAGCTTATAAGTGGCACATTCAAGGTTGACACCTAGGGTTTCCTAAAGGAAGAATT
CTTCAAGGTGGGCCTGGCAGGACATATGGGATATGGAGAAGCAGAGAGCGGGGGCTGGAG
AGAATGGCACAGAGAGGTGACAGGCCCTGGAGTTAGAACAGAGGTGTTGGTAGGTGGCTG
TGCTCCCTTGGCAAAAGAGCACCAGACAGAGAGGGGGAAGGGTTCCTGTCTGAGAGGTCT
CCACCGGCCTGTCCCTCATCCTCTGCTGCTTCCTTCACATGCACTCACACAGGGGCTTGG

269429

GGGGTGCTCCTCCCTGGAGCCAGGCCAGGCAAGGTGCCATTCTGGGCCTTGACTCCTAT
AGCAATTACAGGACAGAGGTTATCAGCCCCATTTGACAGATGAGGAAATGAGGCCCAGGG
AGAGAAGCCCTGGGCTTCCAGCAAGCAAGCAAGTGGGTGCTGCTCTGCTCTGAGACTCCC
CATGCCTGGAACACGAGTGTGGGGGGAAACAGCACCCCACGCCCTCCGGCCTATCCTGTG
AGCACTCATGCAGGGAAATAAGAGCAAAAGAGAAACTGGGAGGATTCTCAAACCACAGT

268640 ATCCGGGGTGCTCCCCTGGAGCCAGGCCAGGCAAGGTGCCATTCTGGGCCTTGACTC
CTATAGCAATTACAGGACAGAGGTTATCAGCCCCATTTGACAGATGAGGAAATGAGGCCC
AGGGAGAGAGCCCTGGGCTTCCAGCAAGCAAGCAAGTGGGTGCTCTGCTCTGAGAC
TCCCCATGCCTGGAACACGAGTGTGGGGGGAAACAGCACCCCACGCCCTCCGGCCTATCC
TGTGAGCACTCATGCAGGGAAATAAGAGCAAAAGAGAACTGGGAGGATTCTCAAACCA

AGTGACTCCAATCCCCATACTTTTCACACTGAGTGGAGCTCCCTTCCCCATCTCTGAAG AGGAGAACAGACCCCAGGTCATCAAGCCTGGTCCTAGCCAGGGGCAGAGCTCTCAGCTAG AGCACCTCGCACTTGGATTTATTTGTCATGGTTTCTCTTCTGCTCTCACCTAGGCAAAGG GGTTGGATTTCACTGGAGGAAAGTTCCAGAGGAAGCAAAAGGGAAAGCCTGTGAGCATGG AGTATTCTTGTTCAGTTTACCAAGGGGCTGTCCTATGGCAGCCTGGACTCAGGGTCAAAG

ATCAAGCCTGGTCCTAGCCAGGGGCAGAGCTCTCAGCTAGAGCACCTCGCACTTGGATTT
ATTTGTCATGGTTTCTCTTCTGCTCTCACCTAGGCAAAGGGGTTGGATTTCACTGGAGGA
AAGTTCCAGAGGAAGCAAAAGGGAAAGCCTGTGAGCATGGAGTATTCTTGTTCAGTTTAC
CAAGGGGCTGTCCTATGGCAGCCTGGACTCAGGGTCAAAGGAAACTTAGAGGCCATGCAT
GTCTCAGTAGAAGCAACTCTGGACAAAGCCATGTGTTCCTTTGTTTATCTGGCACA

AAGATTCTAGCTGTGGTGTTGTAGCCCCAAGGTGATGGTAGGCATGTTTAAGGAACTGAG GTGGCGCAGGGTCGCCAGAACGGGTGTGTGAGTGGGGAAGGATGAGCCTGGAGACATAAC AGGGCAAGTCAGGGAGGGCGCTGCCTGGCTCCAGCCCGAAGGCAGTGGGAGCCCCCATAA GATTCCTCCAGCTACTGAGTGGGGGAGGATTGGTGGGGACATGATCGGAGGCATAGTGGT CATCCGGGGGTGTTAATGGCTTCCTGAACTACAGCAGAGGTGGTAGGAGTGGTGGGAAAC

269739 GCTGTGGTGTTGTAGCCCCAAGGTGATGGTAGGCATGTTTAAGGAACTGAGGTGGCGCAG
GGTCGCCAGAACGGGTGTGTGAGTGGGGAAGGATGAGGCTGGAGACATAACAGGGCAAGT
CAGGGAGGGCGCTGCCTGGCTCCAGCCCGAAGGCAGTGGGAGCCCCCATAAGATTCCTCC
AGCTACTGAGTGGGGGAGGATTGGTGGGGACATGATCGGAGGCATAGTGGTCATCCGGGG
GTGTTAATGGCTTCCTGAACTACAGCAGAGGTGGTAGGAGTGGTGGGAAACTGGCACCCT

AGAGACACAGTGGTAGAAATGACCTGAGCCAGGACTGATTGGCTGGGGATGGCCAAGATG GTGAGGTAGTGCCAGGTGTGCGATTTGGGAAGCAGGGGGCTTGGGTGGAGGGGTTGTCGG CTGAGGCTGGGATGTGAAAGAAGGAGCAGTCTTGATGGTGAGTTCCATTTGGGCCATGTT GAGTTGAGGGGCCTGTGGGACAATGTGGGGAAATGTCAGGCCAACAGTGGGGTGGACAT CAGGAGCTCAAGAGAGAGATAGTGGATACTGGGCTGGATAGTGAGTAGACACCGCTCCAAG

 $\label{eq:ccacc} \textbf{CCAGATCCACTCCGAAGAAGCCTCGGGCTCCAATTCAGCGCTAATGCACCCCAATTAA} \ \textbf{ACAAGCAGAGCCAGCTGCCCCCGTGAGTTCTACCTCATCTGCATTTAAAAACTAGGGAAA} \ [\textbf{G,-}]$ 

TGTGGGCAAGAGTCCGTTGCAGAGGACGCTTAACAGCCCGCTTCCTAGTTGGAAAATGTA
CCTTTGGCCTTGCATTTGGGTCACAGGTGCAAGAAGCCCCCACCTAGAATGCAATCATGA
TGTCCCTCAATGGTTTGCCTCATCATCCTGGTGCACGCTGTCTGGAAGTAAGCTTGCCCA
CCACAGCCCCATGCTGGTGCAAGGGCAGGTTGGGGGCTCTGGGCCTTACCGGAGAGGACG
ATATCCCAAATCGAGCACTGTGGGCCTGCAGCCCGCCATCCCCGAACACAGGCCTGTGCC

272820 CTGGGATCTAGAGTTACAGTAAGTCCCGGTAGTAATTCACATGCTCATGAATTCACAGAG
CAGGGTAAGCTATGGGTTGCCTATCTCTGCCAAGCCAGATATTTGGAATGGTTATAAATA
TCTCCCACTGTCAAGTAGAGGTCCCTCTGCTCCCTCAATGCAAACCACATAGCTTGGGAT
CCATTAGTTCATTCCAAATAATTAAGAAGCACCCCTCATGGGTGTGGTGGGTATAATAAT
TCAGAAGGCAAAACTCTTCCTGTCCCAAGGATCCCAGTGTTGGTGCATCAGGGCCCATCT

274065 TTGAAGGGATGCCCAGCCCAGGATGGCAGAGTCTCAGGGACCAGATGAGCTGCCGCCACT
TCCATATCAGTGACCCTCTCTGTGAGCCCCGCACCTTCCCACCCCTCCCCCATGTACCT
AGGCCTGGGCTTGGCTGAGGACAAATACTGTCTACTCAAAGCAACTGCTGTCTTTCAGAC
ATATTGAGAAACATCAGGTTACCTTTTTTAAATAAACATATCATTGAAGCATAACACAGA
GAGAAAATGAATAAGTCATAAGTGTATAGCTCAGTGAACTTCCACAGAGAACATATCTGC
[G, A]

TAACCAGCACCCAGATCAAAAGACAGAATCTTACCAGTGCCCAGACGCACCCACACCAT
GCTCTATTCCAGTGTGACCCACCCAAGCATACCCACTACTCAGGTGGCCTTTTGAAAGAG
GAGAGGGCATGACTGTGACAAAGCAGAAGGGTGGCTAACACCAGCACTGCCACTTAGAGG
GGTGCCCAGGTAGAGGGGAAACAGGGAAGAGAGAGGCCATGAGGTAAAGAAAAGCTT
CATGTGAGTGTGGAAGAAGAACGACCCAGTGAGCGTGGCAGGACCCTCGCCAACTGTGACT

TGAGAGCCAGCACATCTGCCAAATCCCATCAGGCTGCTTTTCGCTCCTTTCCCGGTGT
TCAGGGAGTGAGCAGTGCAGATGCATTATGGCTGAGATGTGTCTGGAATCAAACTCCATC
GCTGGAAGAGGGGGCTTTCTGAGCGCTCGGAGGACCCACACCTGGTTTGCTGTTTATCC
CCACTGCCAACCCTCCCTCGGCAGCCCCGGCTTCTCACACTGCCAGGCCCTGCATTCTGG
ATGTGAGCTGAGACCACAGCCTGCGCATCAGCTCAGAAGCTTCAGGTTGAAAAACCCACA
[C,T]

FIGURE 3, page 174 of 188

CAGGCCAGCAGAAGTTTTTGTGCAGGATGGTACCGTGAAGGTCAGGATCGCTAGGACCCC TGGCCCCACCCATTAAGTGCTACCAAGGCCCTCCAATCATTGTGACAACCAAAAACATCC CCACAAAATTCCAAAACGCCTCTTGGGGACAGCACTGCCCTTGTTGAGACCGTTTATAGA GACTCCTTGCATGTGCGATGAGTCCATGTGGGAGCTAAGTGCTCCCTTTGCCTGACCCAT CAGCCTCAGTCTGGAGCCAGTAACCCTCATCTTGATCACTCGCGGAGGAAGCGACAGCCT

> GGACAGGGCAAAGGGGGAGCCGGAGTTCATAAGAAGCTGTTGCCCACCTTCCACAAGGAA TGCTGACCTGTTAGGGAATCTAGCTGGTGGAGGTTTTCCACTAACACAATAGTAAAAAAT AAAGTTCTTAATACCAGGAGAGCTTTAGCATTTATTCATGTTTTCATACAGTGCTCTTTC ACTCTGGGGCCACCTGACAGATCTGCCAGTCAACCATAAAAAGTATATGTGGATCCCTCT CCCAGGGATCCAACCAATTTTGCTTTCTCTAATAGGAATAAAAGGAGAGGATTGTAAATGT

280127 CCTCCGACTTCCCTGCTGGTGACTGACCTCTAGTCCAGCACTACTGCTTCTGCTCTTGG
GGCTGGTGACAGGGAGAGTGGGAGGGGGGGGTGAGCTGCTGGACAGGGCAAAGGGGGAGCC
GGAGTTCATAAGAAGCTGTTGCCCACCTTCCACAAGGAATGCTGACCTGTTAGGGAATCT
AGCTGGTGGAGGTTTTCCACTAACACAATAGTAAAAAATAAAGTTCTTAATACCAGGAGA
GCTTTAGCATTTATTCATGTTTTCATACAGTGCTCTTTCACTCTGGGGCCACCTGACAGA
[T,A]

AGCACAGCCGGGGAACCAGGCGCAAGGTCTGCATGGCCTCGTGTGTTTTAACCCTGGGT AAAAGGCCATGTCAAGCCTTACACATGCAGATTCTGTTTTGTGGTTCCAAAGTGAGCCTTG TACCTTCAACCTAGAAAATTCAAAATTAGCTGAGATGACAAATATGGACACTCCAGGGAA AAGACCAGATGGAAACTGACCGAGAATAGTTTGGCAGCCTTGATGCAAGGCCCTCTTTGA ATCCTGGGAGGATGAGGGGCTAAATCTAAGAGGCTGTAACCACTTGATTTCCCTCAGCCA

GGGGTTCTCAGGTGAGGTTTGGGGATCTGAGCTCTAGCCACCCTGCCAGGTTGAAGAGGG GCTGGAGCCCAGTGACTGCAGCTCCAGAGAGTGGCTGGTTACTATGTGGTTTCTGCAGGG ATGGCCTGTGTCTGGTTTGGGAAGAGAGTCCTCACCCCATTTGTTGGCATTCAGAGCAG ACCCACCCACCCAGCCAGGCAAGTCTTTCTTCCCCATGCCTTTGCCCCTAGGTCCACC CCCCCTTCCCCAAAGGGATTGCTTCCAGCAGTGGCAGCTGAGCTCTTTCATGATGTTGAG

283120 GTGAGGTTTGGGGATCTGAGCTCTAGCCACCCTGCCAGGTTGAAGAGGGGCTGGAGCCCA
GTGACTGCAGCTCCAGAGAGTGGCTGTTACTATGTGGTTTCTGCAGGGATGGCCTGTGT
CTGGTTTGGGAAGAGAGACCTCACCCCATTTGTTGGCATTCAGAGCAGACCCACCATCC
CCCACCCAGGCAAGTCTTTCTTCCCCATGCCTTTGCCCCTAGGTCCACGCCCCCTTCCCC
AAAGGGATTGCTTCCAGCAGTGGCAGCTCATCTTCATGATGTTGAGCCATGTCCTGC

287120

AACACAGATGGTCCACAGGGTCGGCTCTGTTCATTTACTGATCAGAGCCGGGGCAAAAAA CAGGGTCTTTCCTGAAGCTATGCCATAGCCAAATTCATCCACAGGCCTCCTTACCTGGGT

GGCCTCTTCACAGGGTGATCCACGGCTCTCCTGACCAGCAATGCCAAGACAAGAGGGCAG 283749 AAGCTTTCCTCCTCCTCCCAGAAGCAATTCCCAGGCAGCTGCCTTGTGCCCACCACACT TCTATGCAACCTAGTGTCCAGAGACCACCTTGCCACCCCCTAGCCTGGCCATGCTGGA GTTCACTCCATGGGAACAGCATTGCAGGTTTTGGGTTGTCCCCACTGGGTGAGGTATGGA GGTCTGGGCTTCAGTGAGCATGGCCACATGTACCACATGGTCAGCATGCCCCCCAAGGAA

> TGACATGATGGGTGACACAGGCACTAGCCCCCTTCAGAGATCCAGACCCGTCACCATGGT GCAGGGTGGCTGGGATTGTCTCCTCTTCAGGGCAGGGCCGTAGCCACTCTCCAAGCCCAC CTGCCACCTGTCTTCCACAGTCATACCGGTAACAGACACTGAATGAGCCCCTTCTATGTG TGGATGCTGGGCCAGGTGCTGGGGGTACACCTGTAAGCAAGGCCCCACTGCACTGGAGGA GCTCACAGTCTAACAGGGAGCCTGATGATCCACAGTGGATGAAAAAGTCACAGAAATTGA

ACAGAAATTGAAGGCTGGAGAAGGCTGGCAAGAGAGAACAGGGCAGCACACGAGGGTGCC 284339 CGTTAGGCAGGATTGGTGTTAGGCGAGGGAGGCTGAAGGAGTTGGTGAAGAAACACCT TGCAGTGAGAGAGTAGGACGGGGCAGCAAGAGAGAGCCCACTTTCCCGCCCCACCACCAT GCAGGTGCCTCACCCCTGGGATCCAAGGCTTGGGCCTTGACCACATGGCCTGTCTCCCTC TCAGAATCTGAGCTCCCGACAGCCTGTGTAGCACTTTCCACATTGCCCACATTACACAAC

> CACCTGCCACAGAATGAAGATGGTCCCTTTGAGCACAGTCTGGCAGGGGCACAAGTGGCT GATGGAATATTTACAATGTCTCCCTTGCTTCCCTTTGTTTTGCAATAGAAAGTGTTTCTT TGATGGACATTTAATTCCAGAGACTGCTACCTGCTACCTATCTCCCTTTGCTCAAAAATT AAATGTGGATGTGCCTGTTCTCCTGCTATAATCATCTTCCTCTGTGTGAAGGGAGTGCAG

> ${\tt CATGGCCTGTCTCCCTCTCAGAATCTGAGCTCCCGACAGCCTGTGTAGCACTTTCCACAT}$

GCCTTTTACAGGAGCTTCACCTGCCACAGAATGAAGATGGTCCCTTTGAGCACAGTCTGG CAGGGGCACAAGTGGCTGATGGAATATTTACAATGTCTCCCTTGCTTCCCTTTGTTTTTGC AATAGAAAGTGTTTCTTTGATGGACATTTAATTCCAGAGACTGCTACCTGCTACCTATCT  $\verb|CCCTTTGCTCAAAAATTAAATGTGGATGTGCCTGTTCTCCTGCTATAATCATCTTCCTCT|\\$ GTGTGAAGGGAGTGCAGTGGGAATGAGAACATTAGAATCTTCAAAGAGGGACAATTAT

CCCCATCCCAGGCTGAGTTAGAGAGGCCCTGGCAATGGGATCCGGGCCCCAGCTCAGGGC TCCTTATGGCATTCTCTCGAACCATTCTCTCGAACTCCTGACCTCAGGTAATCCACCTGC CTCGGCCTCCCAAAGTGCTAGGATTATAGGCGTGAGCCACCGCGCCCGGCCTGCCACTAT CATTCTCAACATCATCTTGACCATCACCCACAGGGGCACCAGGGAGGAGTGGGTGCTCC  $\verb|CCAAGCCTCTGCCACACACCCCAGGGACCTTCCCTCCGAAGGAGTAAAGTATCCTGTGGA|$ 

CTGGGAGCCAGGCCCAACACACACAGTGTCAGGGCACGGAGAGTGATGAAGGTAAGGGGT GCCAGCTTACATCAGGTGATGTTTAAGCAGAGGCCAAGATGAATACACCAGGTGGAGATT TGGGTGAATAGCACTCCAGCCAGGGGGATAGTCAATGCCAGGCCCCTGGGCAGGAGCATG CCCAGTGATCAGTGCTGCAAGTCCCCTTGGTCCCCCCATACCCCCCACCTCTCTTGTA

GTGGACCAAGGCTAAGGCTAAGACTGGACCCTGCCCCTGTCCGGAGAGATCTGATTCCCT 287415 CCCTACCTGGGAGCCAGGCCCAACACACAGTGTCAGGGCACGGAGAGTGATGAAGGTA AGGGGTGCCAGCTTACATCAGGTGATGTTTAAGCAGAGGCCAAGATGAATACACCAGGTG GAGATTTGGGTGAATAGCACTCCAGCCAGGGGGATAGTCAATGCCAGGCCCCTGGGCAGG AGCATGCCCAGTGATCAGTGCTGCAAGTCCCCTTGGTCCCCCCATACCCCCCACCTCT [C,T]

TTGTAGTCACCTGTGTGGAATTGCTGGGCAGGTGGGCAGGGCTGACTGGGGTGAAGATAA TTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCTCTGTCACCCAGGCTGGAGTGCAGTGGCG TGATCTCGGCTCACTGCAAGCTGTGCCTCCCGGGTTCATACCATTCTCCTGCCTCAGCCT 

CCACCATGCCTGGCTGATTTTTTGTATTTTTGGTAGAGAAGGGGTTTCACCGTGTTAGCC AGGATGGTCCCAATCTCCTGACCTCGTGATCCGCCCCGCCTCGGCCTCCCAAAGTGCTGGG ATTACAGGCGTGAGCCACCACGCCCGGCCAATGATTGGAAATTTGAGAAGAATAGGAGGAAGACAGGTCTCGGAGCCCGCACAGCAGACGAGGGCTGGACTACGTGAAAGAGC TCATTTCAATAATGGGCTCAGTGTCACTCATGGAGAGAGGGCCCAGCTTCACATCTGGCCAG

ATTTTTTGTATTTTTGGTAGAGAGGGGTTTCACCGTGTTAGCCAGGATGGTCTCAATCT
CCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCC
ACCACGCCCGGCCAATGATTGGAATTTGAGAAGAATAGGAGAAGATCAGAAAACAGGTC
TCGGAGCCCGCACAGCAGACGAGGGCTGGACTACGTGAAAGAGCTCATTTCAATAATGGG
CTCAGTGTCACTCATGGAGAGGGCCCAGCTTCACATCTGGCCAGCAGTGTTGACAGCA
[G, C]

288050 GTCTCAATCTCCTGACCTCGTGATCCGCCCGCCTCGGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACCACGCCGGCCAATGATTGGAATTTGAGAAGAATAGGAGGAAGATCAG
AAAACAGGTCTCGGAGCCCGCACAGCAGACGAGGGCTGGACTACGTGAAAGAGCTCATTT

291274

288331 TTATTTCTTTTTTTTTTTTTTTTTTTGCACTTTCCAAGTGGTTCTCTGATGGGCATGTA
TTTCTTCTAGAATTAGACAAATGTTTGAAGCTGGAAGAGGGGAGGCCTTTAGCTGAA
GACATGTCCGGTGGTGCCCAAAATGCCCAGTGCTTCACACAGCTAAGTCACTCCTATCTG
ACCCCACAGTGAAACCAGCAGGGGGCAGGAATGTAAAAATAAAACTGGAATTTGGTAACC
TATGACTTTGACACACCCTTGCTAGGAAAATATCTATCCTGGAAGCCAAGGCCAGCTGTGA

GGAGGAAATCTATCCAGGGAGACTGAGCTGGAGGCTGCAGCTTTGGGGCATCTGCCTCTG GGGCTGGAAGAAGGCAAGGAAGGAAGTTTTCCCTCCCCCACTCCACCTCAAGCCCTGTG GAATTCGGATGACAAAGGCAGGGAGTGAAGGCAGGGAGCCACCAAGAGGGCAGCCCTTGG AGATGAAGGCTCAAAAGCCTTCCCAAAAAGCGAGTTTGGACTTTGGGATCTCGAGTGATC ATCTGCACAGAAGCAGAGCTCTGAGCATCAGGCTGCCTTTCCTCCAGGGTCCACGGCCCT

CTCAAGCCCTGTGGAATTCGGATGACAAAGGCAGGGAGTGAAGGCAGGGAGCCACCAAGA GGGCAGCCCTTGGAGATGAAGGCTCAAAAGCCTTCCCAAAAAGCGAGTTTGGACTTTGGG ATCTCGAGTGATCATCTGCACAGAAGCAGAGCTCTGAGCATCAGGCTGCCTTTCCTCCAG GGTCCACGGCCCTTCCCCAGTGCTGTCGGGCACCAGAGGAGCTCAGTAATTTCGGACAAA TGACTTCATGATTTAAGTTTGGGCAAAGTTCTCTCTTTGCAACTCATTAAAGCACAGTTGC

288819 GGCTCAAAAGCCTTCCCAAAAAGCGAGTTTGGACTTTGGATCTCGAGTGATCATCTGCA
CAGAAGCAGAGCTCTGAGCATCAGGCTGCCTTTCCTCCAGGGTCCACGGCCCTTCCCCAG
TGCTGTCGGGCACCAGAGGAGCTCAGTAATTTCGGACAAATGACTTCATGATTTAAGTTT
GGGCAAAGTTCTCTCTTGCAACTCATTAAAGCACAGTTGCTCCTGGGGTAAAGAAGGATT
TAAGATTCTGTTCCTGGAATCCCTTGGTTCATCTCAGGACCCCAGTGGCAAGCTTGGCCC

TGGCCTTGGAATTAAGGAGAAGAGCCCCAGGCTCCAGCAACCCATTGGCCTTCAACCTGG
AATGGTCAGTGAGGAGCCCATGCGTATTCTCCAGGATTCAGCAAAGCCAGGCGCTGGAAG
TACTCATCCCCCAGGGAGTCGGGAAGTGGGGCTGGAGGGGCTGCCCTCTCCGCTGACACT
CCTGCAATCCCAGTGTATGGGCGTTGCCCTGCGTGATGTCCATCCTAGAAGCCCGTCACC
AGCAAGATAAACTGTGCCATGCTGCAATGCATCCCAGGCTTTACTTCCCCAAACACTGCA
[T,C]

GGTTCTGATGCTGTTCAGCAAGCGCGCCTGGGATAAAACGAGCTGTGTGCTTCGGTTTTA ACGTTGTAAAGCTTCTTTTTGTTTCTTGGTCATAGACTTGTGTATATGTTTTGTTTTGAAG TAATCCAGCTCTGGGAGGGTGCCTAATTAACATAAGCAGGGCTTATTAGTCCTGTTAACT AAAACTCCCTAATCTAGGAGGCCAAGTATTCAAAAGCAGCCTTTAAGGTAGGATTAAGGC AAAAACCAGTGATTACAAAATGGAATTGGGGGTAGCTTTCCTAAAGCCTCTGTGGGGCTG

292997 CATAGAAAGCAAGGAAAGAGTGACCTCACTCACTGGGGCCACAGCCACTGCCAGTTGCAG
GGAGGAGCCTGTAGGGTCCTGATGGTAGAAAAGCTGGGGTGGGCTGGAGGGGCCTGCATT
CCTACTTCTGCTTACTGGTTTTCTTAAGGGTCTGTAGCCCTAGAGCTGCACCAGGCAG
GTACAAGATCTGCAAGGAGAGTGAGATCAGCCTCCCTGAGTTGGGTGGTGGGGGGGCGGTG
GGCAGCCTTTTTCTTGTGACCACAGACTGTCCACCCAGTGGATGATAATAAAGACAGGT

297548 TGTTGGTTCATAATAAGGTGAGAGTGACTGGTAGGCTTATCCTGCTGCGGAGGTGTTTGT
CTTGTGGGCCAAAGAGATTATTTCCAGAAATGCATTTGGAATGTGTGGAAGTATCCACAA
CTCCCCACACCTGGTTCATGAGAGCTCATTGTTAAATTTTCAGGAATTTTACAAGCAAAC
AGTTAGACACTTGGTCGCTTTAAATTGGCCACGTTGAGAATATTTACATCATAGAAATTC
ACACCACACATATGCTACCAAAAAGGGGAAGGGGGGACATTTTTCTTCTCTAGGGAGCC
[A, G]

GTTGTTATACATTGACCTGCATGTCACTGGACAAGACCCTCTCTCCTGCCCTCGGAGTCC
ACTTCTGGCAATATCTTCCCCACCCACCTCCCTCACTGAGACTCCTTGATGATTCCATG
GAACATGAACAACAGTAGGCTCGAGCAGCTAGGGCAGGTTACAGGAACAGCAGCTCTCTG
AGTCAGGAAAGCAGCAACATGTTCTCTGGGGATAGTTCCAAGACATTCCCAAAAACACTC
TCTGAGCCTAGACCCCTCTGCCAAAGGAGTTATGAAGGAAAAGCTCAGTGCATTTTTAGA

> > FIGURE 3, page 179 of 188

300776

TCAAACATTTCAGCAACAACATTCTGGATTTAATTTTAAAAACTAGAGCTGATGGGCTGG CAGAGGTTGAGGCATTAGCATTTTATTTTCTAGTCTCTATTTTGCTGGCGTCCTTGGGTA

CCCACACAGGATTTGCAAATAAAGTGGCCGAAGAACTGATTCACTGCCCTTGGTCCCTCA 300652 TTTTCTCAAGGGCACAAAACAGTTAAAGCTGGAGTGGCCAAGGGAGGAATTGAAAATTGG CAGACAAGGCCGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGC AGGCAGATCATGAGGTCAGGAGATCCAGACCATCCTGGCTAACATGGTGAAACCCCCGTCT CTACTAAAAATACAAAAACTTAGCCGGGCTTGGTGGTGGGCGCCTGTAGTCTCAGCTACT

> AAAGAAAATTGGGAGACAGAAGGTGTGAGTCTCACCACCTCCTCCCAGAGACAGAGTTGG GGGTGCTGTCCTGACTTCAAGTACATAGAGAGGGCTTCAAGGAGCCCACTTCCACGTGAG

CCACACAGGATTTGCAAATAAAGTGGCCGAAGAACTGATTCACTGCCCTTGGTCCCTCAT 300653 TTTCTCAAGGGCACAAAACAGTTAAAGCTGGAGTGGCCAAGGGAGGAATTGAAAATTGGC AGACAAGGCCGGGCACGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCA GGCAGATCATGAGGTCAGGAGATCCAGACCATCCTGGCTAACATGGTGAAACCCCGTCTC TACTAAAAATACAAAAACTTAGCCGGGCTTGGTGGTGGGCGCCTGTAGTCTCAGCTACTT

> AAGAAAATTGGGAGACAGAAGGTGTGAGTCTCACCACCTCCTCCCAGAGACAGAGTTGGG GGTGCTGTCCTGACTTCAAGTACATAGAGAGGGCTTCAAGGAGCCCACTTCCACGTGAGT

 ${\tt GGCCAAGGGAGGAATTGAAAATTGGCAGACAAGGCCGGGCACGGTGGCTCACGCCTGTAA}$  ${\tt TCCCAGCACTTTGGGAGGCCGAGGCAGGCAGATCATGAGGTCAGGAGATCCAGACCATCC}$ TGGCTAACATGGTGAAACCCCGTCTCTACTAAAAATACAAAAACTTAGCCGGGCTTGGTG GTGGGCGCCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAG  ${\tt GAGGCAGAGTTTGCAGTGAGTGGAGATCGCACCACTGCACTCCAGCCTGGGCAACAGAGC}$ 

AGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAATTGGGAGACAGAAGGTGTGAGTCTCAC CACCTCCTCCCAGAGACAGAGTTGGGGGTGCTGTCCTGACTTCAAGTACATAGAGAGGGC TTCAAGGAGCCCACTTCCACGTGAGTCTCCTGAGGCCAGCGCTGGAGGACAGGGTTCACA TAGTACTCCAGTTGTATAAAGTGATACCCAGCATTTAACTTGTGTCAGCACTGTACACTA

AGATCATGAGGTCAGGAGATCCAGACCATCCTGGCTAACATGGTGAAACCCCGTCTCTAC TAAAAATACAAAAACTTAGCCGGGCTTGGTGGTGGCGCCTGTAGTCTCAGCTACTTGGG 

AAAATTGGGAGACAGAAGGTGTGAGTCTCACCACCTCCTCCCAGAGACAGAGTTGGGGGT GCTGTCCTGACTTCAAGTACATAGAGAGGGCTTCAAGGAGCCCACTTCCACGTGAGTCTC CTGAGGCCAGCGCTGGAGGACAGGGTTCACAGTCAGTGTTCCATTTGAATGACTTTGCTT GTCAATATCGCCGTAGTTAGTAATAGGCTCTTAGTACTCCAGTTGTATAAAGTGATACCC AGCATTTAACTTGTGTCAGCACTGTACACTATGTCCAGTTTCACAGATGAAGAAACTGAA

CATGGTGAAACCCCGTCTCTACTAAAAATACAAAAACTTAGCCGGGCTTGGTGGTGGGCG 300874 CCTGTAGTCTCAGCTACTTGGGAGGCTGAGGCAGGAGAATGGCGTGAACCCAGGAGGCAG AGTTTGCAGTGAGTGGAGATCGCACCACTGCACTCCAGCCTGGGCAACAGAGCGAGACTC CATCTCAAAAAAAAAAAAAAAAAAAAATTGGGAGACAGAAGGTGTGAGTCTCACCACCTC CTCCCAGAGACAGAGTTGGGGGTGCTGTCCTGACTTCAAGTACATAGAGAGGGCTTCAAG [G,A]

> CCAGTTGTATAAAGTGATACCCAGCATTTAACTTGTGTCAGCACTGTACACTATGTCCAG TTTCACAGATGAAGAAACTGAAACTCAGAGAGATGCTAACCCAAGATCACATAGTCAGC AGGTAGCAGAGTCAGGATTTAGTGGGCGTGTCTGATTCTAGAACTTTCTCATGCATTTAA

304512

TGTGTCAGCACTGTACACTATGTCCAGTTTCACAGATGAAAACTGAAAACTCAGAGAAG
TAGCTAACCCAAGATCACATAGTCAGCAGGTAGCAGAGTCAGGATTTAGTGGGCGTGTCT
GATTCTAGAACTTTCTCATGCATTTAAACAAACTTTGCAACACATCTGCATTCTCCGTTG
AAGAGAATCTCACTGTCCTCACAGTGATTTCCCTAAACTTCAAGCCCCAACTCAATGGTC
TTCTCCTCCAGGAGGTCTTTCTCAATTTCTCTTTCCTCCACCAAGCCCCACACCCTTCC

301640 CAGCCCTGGGTTAACAAGGCTGTGGCCTGATTATTAAGAGTGTGGACTCCAGAGTCCAAG
CTAGACCTGGTTTTGAATCTTTATTCTGCGACTGACTAACTGTGTGACTTTGGACAGTTC
CCTACCAGAGGTTAAACTGGGCTTTAATTTTCCCATCTGTAAAATGGGAATAACAACCGT
GCACAGAGTTATTCAGGACTAAAGGAGCTACTTAATGTAAAGTGATTAGTAGCATGAGAC
TTTGCCTATAGTAAATATTAGGCAAACATTAACCAGGTCAATGATGGCGGCGGTGAGGGT
[A, G]

ATGATGAAGATTTCTGTGTGTGCCCCATCACCCTGTGCCATGCCATTGTTGTCCTTCCCCCCTCAGGGACCACAGGCTCCCTGAGGATAGAGGCTGCTTCACCCATCCTGCACTCCTGCTCACACTGCACCCAGGAAGGCCTTGGTCAGAGTTGCTCATTGAGGGCATGAAGGACATGGAGAAAATACATCGGGCAAGGAGAGGAGTCCAGACATGCAGCTGTGGCCAGCGATCCCAGAGGGTCCTTGAGAAAACAGGGGCAGAGGAAGTGCCT

GGTCCGCCTGAAGCTACCGTAGGCTGAGGCTCTCTGAAAGCAGGGTGAGCTCCTGGGCA GGGAGGGACAGGCCCGGTCTCATCTCCCATCTGTACACTTGGCGTGGAGTGGCATGGAAG AGGCAGGCCACCAACCTGAGCCTTTCAGAGGAACCTGACCAGGGCAGGGAGAGCACCACA GGGAAAGGGTGAGGAATTGAGGTTGGGAAGCATAAGAGGAGGAACCATGAAAGATGAG GTGGTGTTAGGTCAGCAAACGCACACAGAGCTCACTCTTGGGGAAGCACTGGGCAGAGAC

CTGTTATTCAGAACAGGTGTCCCGTGGAGGGCTGCTTTCTCTCAAACCCAAACCCCATCA
AATATCCACTCCTTCTCAGCTCCCACAAATAAATGCACCTCCAGAGACTCCTCTTCTGAG
CCACTTCCAGCCCTGGTGTTGGTCCTGACCCTCAATAGTCTACCTCTGTGCCATGGTGCT
TGGAAATGTGCTGATGCTTGGCAGCAGGTTCAACATCAGGGAAACGATGGCTTGGAAACA
GAAGTCACATCCCTGCCTTTCATGGGTGTTCGAAACACCCATCCCTCGGTAAATTGCTGA

309692 GCCCAGCCCTCTGTAAGCAGCCCTGGCCAGGCAGCTGAGCAGATGAAATATTCCCAGG
CCCCAGAGTGAGCAGTTGACTTTAAAAAGTCTGTTTAGACTAGACTGACCCCAA
CCTGTTCCTTTTGAAAACAGTGTCTCAGAAGGCTCAGGCCCTTACAAGCTCTGTAACCTC
AAATGTCTACCAAGATGCCCAGGCTGCAGGGAGTAGCCCTCATCCCAGGGAGAAGTGCG
GTCTTACAATGGCACAACCACAAAGGCTCTGGCCGGGGCCTCAGTCTCACCAAAGGGAC

TGGCCTCCTGGTCTCCAGCCCCGGTTCCTGATCCTCAGATGAAGATGTTCTGATGCCATG GGCACTTCCAGGGAGAATGGCCTGGCAAGTGGCTGTCCCTCAGTTCTCTGCAGAGGGCAG TAAGCTTCCAGAGCGAACTGAGACACCCCCGCAGGTGCCACATGAATCAGCACCATGGCT GAGTTTCCTGCTCTCAGATGTGACAGACATGGTCTTTGAAGTCACAAAGCCAACAGGTTA GGAAGCTTTTGGGCTTCAGCTCTGAGTAGGCAGGAGTTTAAGGAAACGCCCCAAATTGAA

> AAATGCCTTCCATCAAAGGGTGCAATTATGAACTCTGGAAGACTTCCTGATACCATCAAG
> GTAGGCAGGTACTCCCTGCCCATGTGACCTTAGAGGTGCCCCCTCAGAACCTACACCTGA
> GGCTGCAGTGTGCCCCCCAGCCCCCAAGGCAGGCCTGCAGGTGAAAAGTGCTTA
> GCCCTGGAGGCAGTGTGCGGTCATTCACACAAAATACTTCCTGGCAGGAGCTGTTCTAGGC
> TGCAGAAATTCAACAGGTTTCAACACAGACAAAAACTCTTGCCCTCACGGAACTTGTATT

ATAGCCCAGGGAAAGCCTCATCCAGAGGGGCTATGTGAGCCAGGTGTTGAAGGGGTGAGGGCACTCGCCACGCAGTCACTGGGGAAGATGTGTCCTAGCCCCCTAGGTAAAAATAGGTCTGATGGTAGGAGGTGTATGGGAAGCTGGGGGCAGGGTCAAAGGTCCTGGGGGCCCCTGGAAGCTAACCTAAGCACTTTTGTTTTCACAATGGGTGAAACTAGATTATTGGAGGGCTTCAAGTCGAGAAGGATGTGATCTGACTTTATATTTTAAAGGAAGCACTTTGGCTGCTGTTTTG

## FIGURE 3, page 182 of 188

CTAGGCTGAAGATGGAAACTTGGAAACCCTTAGCATACTGACAGCATTTAAAGCTCTGAG TTGGATGAGATCACTGAGTAGGTGAATGTGGATAGAGAAGAGAAGCCAAGACAGAGCCCT AAGAGCCTCTGATGGGAAGAGGTCAGGAAGAGGAGTGGGAGCCCCAAAAGAGAATGAGAG GAAGATGCCAGAGTGGTGGGAGGAAACCCAGGCAAGTGCAATGTCCTAGGAGCCAAGAGA AGAGTGAGTCAGGAAGCGGTCAGCTGTCCCAAGTGCTGAAAGCTCAGTTAAGATGAGGAC

313982 AGTATCATTCCAGTGATTTAAATTCCATGGAATTCCATGGTAAGGAGGAAGCAACATCAC
CACAGGTGACAGGCATACAGTTGGTCAGTAGATTCCCGGTGGGGCTGAAGAATTCTTGGA
GTCTGGATACCAGACAGAATAAACCAGAAGAGTGGGAGGTGATCAGAGAGTAGGATGCC
TGTAGATATGAGTTTTCAGGCTGCTATAATTTGTAATGACAGTGTCTGGACTCCAGGATA
TGGCCACCTGTAAGGTGGAGAGTTGGCAGGTAATCAACTTGGATGTTTAAATCACCTGGC
[A, G]

315368

CTTTTTATGCCCATTTTACAGAAGAGGAACGGAGGCATCAAAAAGTTGCACGTGGTGGTA GAGATGAAACTCAAATCAGGGGATGTCCTCCAAAATTAACACCCTGGACACCCACACAGAG

314043 ACAGGTGACAGGCATACAGTTGGTCAGTAGATTCCCGGTGGGGCTGAAGAATTCTTGGAG
TCTGGATACCAGACAGAATAAACCAGAAGAGAGTGGGAGGTGATCAGAGAGTGGCTG
GTAGATATGAGTTTTCAGGCTGCTATAATTTGTAATGACAGTGTCTGGACTCCAGGATAT
GGCCACCTGTAAGGTGGAGAGTTGGCAGGTAATCAACTTGGATGTTTAAATCACCTGGCA
CTTACACAGGTGGCATATAAGGGAGACTGCTGTTAGCCATAGGCTACAACACAGGAAATG
[G. A]

TGGAGCATGCACGGGGGTTTCCCTTTCTCCCTGAGAGCAGGTTCTCTGAGGCAGGGTCTC
TTTTTATGCCCATTTTACAGAAGAGGAACGGAGGCATCAAAAAGTTGCACGTGGTGGTAG
AGATGAAACTCAAATCAGGGGATGTCCTCCAAAATTAACACCCTGGACACCACACAGAGT
ACCTTCCAACACAGACAGGTTGACCATGAGTAAGATTTGGTCCCTGGCCCCAGGGAGTCC
ACTCTTCTATGGGAAAACAAGACGTGTGCAAAAACAAGGCAAAAGGCTGTGGGACGGTTG

ATGTGGTTCTTCCGTCTCCTGGGGCCTCAGATTCCTTTACTGGATGCTGCATCTGGCCGG
TATACAGTAGGATGGAGAGAGTAGAGAGGCTTGCAGGAGCTGTTTTGGAGCCCAGCAAAG
CCCTTGCACCCATCCCTCCTGACACATTCCACTGGCCAGAACTCAGTCATATGGATGCCT
CAACTACAGGAAGAGCTGGGAAATGTAGTCCAGCTGTGTCCACAGGAGGGAATGGATGCA
GGTTGAGGTGAACACAGAGCATTCTCTGCCAAAGACATGCAGGCCACAGAGTTTGGGCAT

GCCGGAAGGCAGGGTCAGGCCCTGTGGAGATGGAGTGGCGGGAGGTGGCTGTGACGGTCC
TCCGCAGTCCATAGCCTGGCCCCACAGAGGGGAAAAAAGGATCTCTTTTAATTTTCTT
CTCAGGCCTCCACCTGACGAAGGAGAAATATCACCCAACATTGTTATCTCTCAGAAAATA
CTCTCTGGAATCATAAAAAAGGGAAATACAGTGAAGCTAGACCACGAAGGCTGCCCCTTAA
ATCAGGAGCTTCTAAATTATCACAGTGGCGCTCTCTAATTCCTCGGAATGAAAACATTAA

FIGURE 3, page 184 of 188

319520

> TTTTTTTTTTTTTGATTCACAGGTGGGCCTCAGGCCTAGCTGTGGCACCACTGTGATGAA TCATGATGGCACACCCCAGGAGGCCAGTGGGCTGACTCAACCCCTCCTGGAGCGGCCACT GTGCTCAAGCTGTGCGAGGTAGGGGCAGGGAGGCACAGCCTTGGGAGGTAGCATGTAGAG GCAGGAGGACTGGGGCCTGGAGGAAAGGGCATGGTTCACACCCCTTGGCCCCTTCCAGGC AGGCCTGGTGGTCTGAGCTCTTGTGCCACAAAGAGAACCCAGAGGCTAGTGCAGCCCCAG

> AATCATGATGGCACACCCCAGGAGGCCAGTGGGCTGACTCAACCCCTCCTGGAGCGGCCA CTGTGCTCAAGCTGTGCGAGGTAGGGCAGGAGGCACAGCCTTGGGAGGTAGCATGTAG AGGCAGGAGGACTGGGGCCTGGAGGAAAGGGCATGGTTCACACCCCTTGGCCCCTTCCAG GCAGGCCTGGTGGTCTGAGCTCTTGTGCCACAAAGAGAACCCAGAGGCTAGTGCAGCCCC AGGAGGAAGGGTTGGGAGCCACGGGTCAGAGAAAGGCTGCATGGCAAGGTGGACTTGTTTT

> ATATTTGGACAGATAGAAAGGAAAGGGCTCTACTTCAAGGCAAGAAAAGGCTCAGAAG
> AAGGATTAGGAGTGGGGATTCAAGAATATAATTCCTTCAGTATTAAGTACCTGCTAAAGG
> TGGGCAGATCAATAGCGGGGCAGTTGGGGTTGTGACCTCATTTTCAGCTCTGCCCTGCTT
> TGCCCTGAGGCTCCAGACCTCGCAGCCCCCAAGGTTCCCACTGTTATCCCAGTTCCCAAG
> GGCAGCTGGGATCTGACCTTGCTCCTGAGAAATGCTGCATGAAAGAGGGGCATACACTCT

TGGAGCTCCCTTGCCCAAGGGCCTCCTCCAGGCCAGGCTGTGCCTCTGAGCCCAGGCTGC
AGAGACGGGAGGATGGCACAGCACCACCTCTAGGGTATGGAGAGCAGCCTCTGACAGACC
CTCACCTCAGTCTTTGTAGAAAGAGAGAGCAGCAGTTTTCCTGTAACCGAGGAATAATTCT
CAAGGTGGACATGCGACCCAGAAAAATGGAGTGATGCTTAGTCCCCAGATGCCCCCTCCA
GCGCTGTCCAGCTGTCCTGACAGGGGCTGCCACTCGGATAGGTCAAGCGAGGCCAG

320863 ATTAAATCCAGGCAAGTCCAAGTCCAAAACAACGCCTTTCTCTGCTTTCCTGAGGCAG GAGATTGGGGATAAGGCATGAGGGAGAGATGCAGAGTGCTTGTGATGTGGCAGTCATGGA AGGCAGGCTCCCTGGAGGAGGTGTTTTGGCATTTGAATGGCATCCAGAAGGATGTGTG

321530 CACTGCAAGCCCCACCTCCTGGGTTCATGCCATTCTCCTGCCTCAGCCTCCCGAGTAGCT
GGGACTACAGGCGCCCGCCACCACACCTGGCTAATTTTTTGTATTTTTAGTAGAGACCGA
GTTTCACCATGTTAGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCCACCCGCCTCAG
CCTCCCAAAGTGCTGGAATTACAGGCGTGAGCCACCGGGTCCGGCCAACCTACAAAGCTT
TAACACACTGAAAGCAGAGGATTTCTGCCTGAAAAGCACTGGTATTTGGACTTGTGAACA

323257 GCAGGACATGCCCTTGGCCTTGGAGGAAACAGGGAAATCATTCCTTTGGAACTGTTAAGA
GGAAAATGTGAGAATTCAGATCCTACTCCATGGCAGTTCTGAGGGTAATATTTTAGGGCC
AAGGGAATGGGGCACCTTTCCTGCCCAAGTCAGAGAGAACCTTTGGTACCAGAGGCAGCC
TTCAGGGAAAGGCTAGGGTCCCAGCCAGCTGGCACCTGACTCACTTGAGCTGTA
TGTGTTCCCCTCATTCTGCCAGGACACTGGTCAAAGCTGAAATATTATTACTATTACAAG
[A.G]

TGTCAGATATCCTCCAGCATCTGACACCGAGCATCCTCTCCAACTTGAGACAGTTTATAA
TCATTTCAAAGTAGAGAATGCCAAGAAGACTGGCCTGTGGGGGTTCATCCAAATCTTGGA
TGCCTGAATCTTCTCCAGGAGGGTTGCCCAAGGACTTAAGAAAAAGAGCGAGTGTCCAAG
GCAGAGTCCAAGGAGTGCTCCAGAGCACACATGCCAGGGCCTGTGTCTGCACAGGTTG
AGTGGGAAGAGGAGAGAGGATAATGGCAAGGATGTAGAGGAGGAGACTGCCCGGGCAGGC

AAAGTGTGTAGCACTTCCGCCTTTGCTCTTTCTCTCCTGCTCTGCCATATTAAGACATGC
TTGCTTCCCCTCTGCCTTCTGCCATGATTGTAAGTTTCCTGAGGCCTCCCAGCCATGCTT
CCTGTACAGCCTGAGGAACTGTGAATCAACTAAATCTCTGTTCTTCATCAATAACCCAGT
CTCAGGTAGTTTTTTATAGCAGTGTGAGAACAGACCAATATATTGCCCTACACCCATGCA
GTGCTGTGAGCCAACAGCCCACTGTCCAATTCCTCATAATGGTTTCTATGAGCCACTGCC

327295 GGACTGCAGCAGCTTTTAGGGAGCTCAGCTTGGGAATCCTGCAGAGCTGGGCAGATTTAC
CTCTCTGAGTCTCAGTTTTCTCATCTGTACAATGGAAGTAATTGTACAGAAACATTGTTC
TGAGGGTTCAAGGAGAAAATGTGTGTAAAGGGCTTAGCAGAGTGCGAGGCAGGGTGCTCA
GGGAATGTCAGATTTTATTACTGTTATTATCTGCCTCCTAAGTCCCACCTATTTCAGAGA
TATTTTCCTAGGAAAAGGGTTTCAGGCAACAGTCAGCAGGGACCTTCTGAGGTCTCTGGA
[C,G]

TCAAGACCTTGAAGTGTCCCTCAAGGCCATTAATGCAGATCACAAATACCAGGCCCAGGA TTTGAGCTAAAGGAGAGAACCAGCTGGCTCAGGGCTCCAAGGAGGTTGGGCTGGTGGAAG GGGCAGGACAAAAGCAACTCCAGGGGGTGTCCCAGACACAGGGACCGGTGTGCAGGCTCA CTGCTCACCCACCAACTGTTTACCCAGCACGTTCCATGTGTGGGGCACTGGGCAGGCTGC TGGCATTTAATGGTAAGCAAAGCCAGATGTGGTTCCTGCCCTTGGAGAACTTACAGTTCT

ACCCTCCTGCTATTGTGGTGAGGGCCGCATGTTCCAGGCCACGGGACTGAGCTCAGAAGA
GCACACGGCTCTGGTCACAAGAATGGGCAGAGGGTGATGAAATCCCTTGTCGCGTGGCGT
CTTTGCTATGAGGCCCCCACCTACTCCGGACTGGCTGTTCTTTATCTTTTGCTTCACATC
AGCACCAAGTGTCCCTGGCATGAACCCCCAAAAACAGTTCAGAAGAGGGCTTCCTCCTAC
ATCATGCCGGTGGGGGAAGAAAGCCCCAGGGCCCCAGGATCCCCCAGAGTCAGCCCCACTC
[G, A]

331612 AGCCTCTGCCTCTCAGGTTCAAGCAATTCTGCCTAAGCCTCCCAAGTAGCTGGGATTACA
GGGGCACACCGCCACCCAGCTAATTTATTTTTTCATTTTTAGTAGAGACAGGGTTTCA
CCATGTTGGCCAGGCTGATTTCAAACTCCCGACCTCAGGTGATCCACCCGCCTTGGCCTC
CCAAAGTGCTGGAATTACAGGAGTGAGCCACCGCGCCCAGCCTATTACCCTGTCTTTCTA
ATATCACAGAGTAATTTTGCCTATGTTTGAACTTTGTATCAACGGACTCATACAGAATGA

TCTGTCAGAAATCTATCTCTTCGCATCAAATTGCTGGTGGAGAATATGCACAGAGTAACA
AGATATTGATGCCTGGTTTTAAACATGCTCCTGTTATAAGAGTAGACACTTAACCATGGT
GGGGAGTGGGAGGGATGGCCTTTGGCCCCAAGGTACCCATTCAGGGCCAGCTTGGGACA
CAGTCTTGAGGGGTCATTATTATTTCCCCCACCATGGCCTTGAGACCCTGGGTGTTCCTA
CAGGGCCCTCCCTGCCTTTGGGTCAGGGACACTTTTCAAGAATTTGCCATAAGGCTAAGG

334749 CAACTCCATCAGCCCCAGCCACCGCCCTGGCCATGTTGAGAGTTTGCCAAAGAAAAATGA
ACACTTGGGCCTCAAAGTGCAGGCATTAATATCCTAAGTGTCTCATCATGGAAGACTTTG
TTCCCCAAGGAGAGTAAATCTTTCCTTGTGGGATGCAGCAGGCTAAGGACCAAGCTGACT
CTCTGAGCTCAGTAATCAGGCTAGTCTCCTGCTGGAGGCACAGAAGGGAACTCCGCTGTG
TGTCAGCACCTCCTGCATGCCCTGACTCATGCTTGGGGGAAGGACGGTGAGAGGC
[A, G]

GATATGGACCCTCCCTGGGCAGAGCTCCCTGTTATCCCTGGAGTGGGTTACTCCTTCCGC TGCCTGCAAACGTAGGTTTCCCTTCAGCTACGCAAAGGCCTGTGAACACAGATACGTGGT CACAAGCATCTTTGCAGCTGTTTCTTTCCACCAGCCTGGGGCCTGCTGGGTTCCTGAAAC CTCAGGGTAAGTCAAGCCTCAGAGGTCATCAGTAGCCAGTATCCACTGTTCTGCACCCCT TGGGAGAAGCTCGAAGAACAGGGCTGCCAACTTCTTCAGTAAGATCCCCCAGGTAACCCT